

OUR 50TH YEAR

GRAINGER'S

WHOLESALE NET PRICE MOTORBOOK No. 347 SPRING 1977

MOTORS

1/500 to 50 HP

VENT FANS

BLOWERS

HEATERS

CONTROLS

POWER TOOLS

SHOP EQUIPMENT

COMPRESSORS

LAWN EQUIPMENT

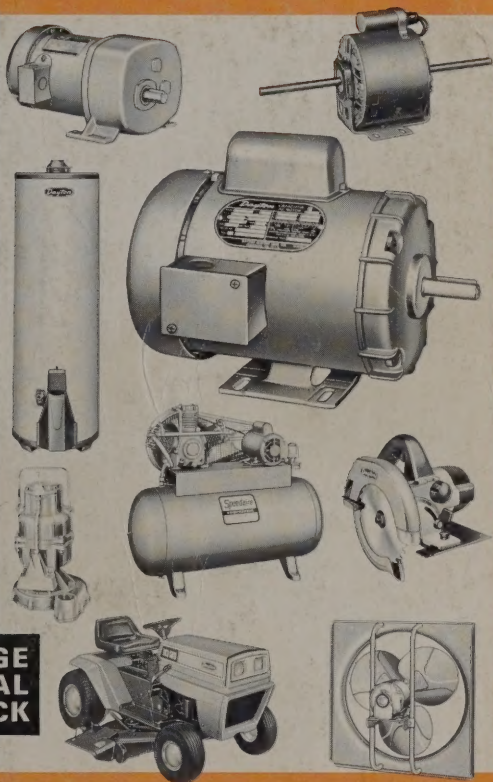
LIQUID PUMPS

LIGHTING

137 LOCATIONS
SEE PAGES 684-685

COMPLETE INDEX
AT BACK OF BOOK

**LARGE
LOCAL
STOCK**



W.W. GRAINGER, INC.

520 E. WOODRUFF AVE. • TOLEDO, OH. 43624

Between 12th and Canton

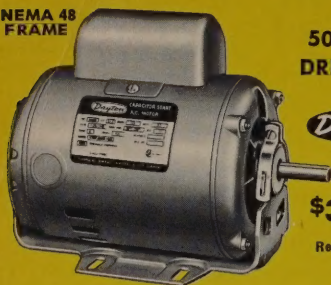
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MAIL ORDERS: P.O. Box 855, Toledo 43696

See Sales, Prepaid Freight and Warranty Policies in Index on Page 684

1/4 to 2 HP CAPACITOR-START DAYTON MOTORS

NEMA 48
FRAME



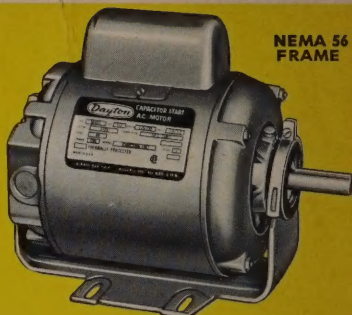
50°C RISE
DRIPPROOF

Dayton

\$32.90

1/4 HP
Resilient Base
Model

NEMA 56
FRAME



Provide dependable, economical power for machinery, pumps, conveyors, grain augers, fans and many other applications in industry, on the farm and at home. Factory tested to assure NEMA performance. Capacitor-start type, 1140, 1725 and 3450 RPM. 115, 115/230 and 230V, 60 Hz

models. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Open drip-proof construction. Rotation easily reversed. Gray finish. Dayton brand.

1/4 to 3/4 HP NEMA 48 FRAME CAPACITOR-START MOTORS

HP	RPM	Volts	Bearings	Thermal Prot.	NEMA Frame (Seep.16)	Full-Load Amps @ 115V	RIGID BASE TYPE			RESILIENT BASE TYPE			Shpg. Wt.
							Stock No.	Retail	Each	Stock No.	Retail	Each	
1/4	1725	115	Slv	—	48	6.3	—	—	—	5K989	\$50.25	\$32.90	15
1/3	1725	115/230	Slv	—	48	6.8	6K241	\$54.75	\$35.84	5K991	56.25	36.83	15
	1725	115/230	Slv	Auto	48	6.8	6K243	57.75	37.81	6K244	59.25	38.79	16
1/2	1725	115/230	Slv	Auto	48	8.4	5K987	70.50	46.15	6K245	72.00	47.14	20
	3450	115/230	Slv	—	48	9.8	5K683	52.50	34.37	—	—	—	17
	3450	115/230	Slv	Man	48	9.8	6K361	57.83	37.86	—	—	—	17
3/4	3450	115/230	Slv	—	48	11.8	5K684	63.75	41.74	—	—	—	18
	3450	115/230	Slv	Man	48	11.8	6K370	69.08	45.22	—	—	—	19

1/4 to 2 HP NEMA 56 FRAME CAPACITOR-START MOTORS

1/4	1140	115/230	Slv	—	56	6.2	5K440	\$91.50	\$59.90	—	—	—	21
	1725	115	Slv	—	56	5.6	—	—	—	5K441	\$50.25	\$32.90	20
	1725	115	Slv	Man	56	5.6	5K598	53.63	35.11	—	—	—	15
1/3	1140	115/230	Slv	—	56	7.2	5K442	106.50	69.72	—	—	—	21
	1725	115	Slv	Auto	56	6.0	5K443	54.00	35.35	5K444	55.50	36.33	20
	1725	115/230	Slv	—	56	6.0	5K445	54.75	35.84	5K446	56.25	36.83	18
	1725	115/230	Slv	Man	56	6.0	—	—	—	5K447	61.58	40.31	19
	1725	115/230	Ball	—	56	6.0	—	—	—	5K448	62.25	40.75	19
	1725	115/230	Ball	Man	56	6.0	5K599	66.08	43.26	—	—	—	19
1/2	1725	115	Slv	—	56	7.8	5K449	64.50	42.23	—	—	—	19
	1725	115	Slv	Auto	56	7.8	5K450	66.75	43.70	5K504	68.25	44.68	20
	1725	115/230	Slv	—	56	7.8	5K451	67.50	44.19	5K452	69.00	45.17	21
	1725	115/230	Slv	Auto	56	7.8	—	—	—	5K453	72.00	47.14	21
	1725	115/230	Ball	—	56	7.8	—	—	—	5K454	75.00	49.10	21
	1725	115/230	Ball	Man	56	7.8	5K455	78.83	51.60	—	—	—	20
3/4	1725	115	Slv	—	56	11.6	5K456	75.00	49.10	—	—	—	23
	1725	115	Slv	Auto	56	11.6	5K982	80.25	52.54	—	—	—	24
	1725	115	Ball	Auto	56	11.6	6K236	86.25	56.47	—	—	—	24
	1725	115/230	Slv	—	56	11.6	5K457	81.00	53.03	5K458	82.50	54.01	25
	1725	115/230	Ball	—	56	11.6	6K519	87.00	56.96	—	—	—	25
	1725	115/230	Slv	Auto	56	11.6	—	—	—	5K459	85.50	55.97	25
	1725	115/230	Ball	Man	56	11.6	5K460	92.33	60.44	—	—	—	25
1	1725	115/230	Slv	—	56	14.8	5K431	108.75	71.20	5K432	110.25	72.18	29
	1725	115/230	Slv	Auto	56	14.8	—	—	—	6K246	113.25	74.14	29
	1725	115/230	Ball	Auto	56	14.8	6K237	117.75	77.09	—	—	—	30
	3450	115/230	Ball	—	56	15.0	6K232	87.75	57.45	—	—	—	30
	3450	115/230	Ball	Man	56	15.0	6K385	93.08	60.93	—	—	—	30
1 1/2	1725	115/230	Ball	—	56	19.6	6K162 [§]	144.00	94.27	—	—	—	38
	3450	115/230	Ball	—	56	19.0	6K284 [*]	114.75	75.12	—	—	—	31
	3450	230	Ball	Man	56	9.5 [‡]	6K614 [‡]	119.63	78.31	—	—	—	31
2	3450	115/230	Ball	—	56	22.0	6K138 [*]	141.75	92.80	—	—	—	36
	3450	230	Ball	Man	56	12.0 [‡]	6K652	146.63	95.99	—	—	—	35

(§) Cradle-type, rigid base.

(#) Class B insulation, 70°C rise, continuous duty.

(*) Side-mounted conduit box.

(‡) Full-load amps @ 230V.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

PAGES WITH BLACK
BAR ON CORNER
HAVE NEW PRODUCT
LISTING

NEW PRODUCT HIGHLIGHTS

AIR CONDITIONING AND REFRIGERATION COMPONENT LINES EXPANDED



Sundstrand
Compressors
Page 564

Parker
Thermostatic
Expansion
Valves
Pages 565-566



GE
Relays
Page 572



GE
Magnetic
Contactors
Page 573



14 oz. Cans of
Refrigerant 12
Page 574

1977 LAWN AND GARDEN EQUIPMENT LINE



16 and 10 HP Dayton Tractors
with Transaxle Drive
Pages 378-379



8 HP Rear Discharge
Dayton Mower, Page 383

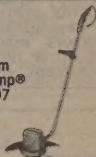


2 HP Compact
Dayton Tiller
Page 388

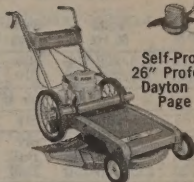


Dayton
10" Chain Saw
Page 393

Sunbeam
Trim Champ®
Page 397



Self-Propelled
26" Professional
Dayton Mower
Page 387



Ametek/Lamb
24 and 36V
Vacuum
Motors
Page 72

QUICK INDEX

ELECTRIC MOTORS

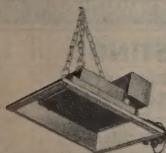
Adjustable Speed...96-109
Capacitor...2-29, 33, 38-40
DC, AC-DC...47, 71-72, 105
Gearmotors...85-99, 106, 108
Perm. Split...36, 38, 49-63
Shaded Pole...49-70
Split Phase...9-11, 21-46
3-Phase...27, 29, 73-84
Accessories 32, 48, 110-155

EQUIPMENT

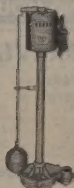
Air Compressors...406-451
Air Conditioners...550-576
Blowers...614-631
FANS:
Circulator...632-653
Exhaust...654-683
Kitchen...603-611
Fan Parts...632-639
Hand Tools...151-187
Heating Controls...516-540
Equipment...561, 577-602
Home Appliances...294-298
Humidifiers...542-545
Lawn Equipment...376-400
Light Fixtures...347-373
Power Plants...401-405
Power Tools...188-245
Pumps, Liquid...464-506
Radios, CB, etc...304-315
Shop Equipment...246-346
Timers...516-520



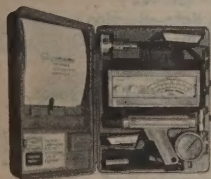
GE Hook-On
Volt-Amp-Ohmmeters,
Page 158



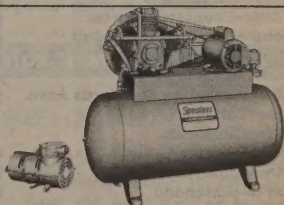
Dayton LP Gas Infrared
Brooder/Livestock Heater, Page 588



Teel
Economy
Upright
Sump Pumps
Page 475



Sun Automotive Tune-Up
Testing Equipment, Page 159



Speedaire Compressors
1½ and 3 HP Single Stage, Page 419
Mini-Compressor/Vacuum Pump, P. 407

COMPLETE PRODUCT INDEX AT BACK OF BOOK

HEAVY-DUTY OPEN, DRIPPROOF CAPACITOR MOTORS

1/4 to 1½ HP. 40°C Rise, Continuous Duty. High Starting Torque

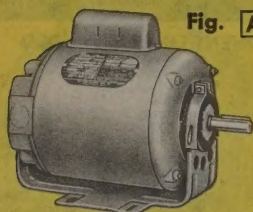


Fig. A

RESILIENT BASE MODELS

\$36.33

No. 6K438

Dayton

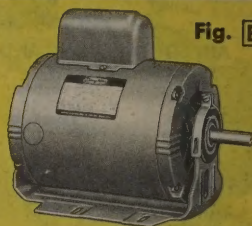


Fig. B

Dayton capacitor-start, induction-run, high-starting torque motors are designed and built for dependable service and economy on air compressors, machinery, pumps, stokers, blowers and other heavy-duty and hard-starting power equipment. All-position mounting. Sleeve bear-

ings or pre-lubricated, double-shielded ball bearings. 40°C rise, Class A insulation, continuous duty—except No. 6K324 is 60°C rise, Class B insulation. 40°C (104°F) max. ambient. Open, drip-proof construction. Shaft rotation reversed by electrical reconnection. Gray. Dayton brand.

1/4 & 1/3 HP, NEMA 48 FRAME, CAPACITOR-START MOTORS

HP	RPM	Volts 60 Hz	Bear- ings	Ther- mal Prot.	Serv- ice Factor	NEMA Frame (See p. 16)	Full- Load Amps @ 115V	RESILIENT BASE MODELS				Shpg. Wt.
								Stock No.	Fig.	Retail	Each	
1/4	1725	115/208-230	Slv	Auto	1.35	48	5.2	6K438	*	\$55.50	\$36.33	16
1/3	1725	115/208-230	Slv	Auto	1.35	48	5.8	6K490	*	66.00	43.21	19

1/4 to 1½ HP, NEMA 56 FRAME, CAPACITOR-START MOTORS

1/4	1725	115/208-230	Slv	Auto	1.35	56	5.3	5K428	B	\$62.25	\$40.75	19
1/3	1725	115/208-230	Slv	Auto	1.35	56	6.0	4K822	B	72.00	47.14	21
	1725	115/208-230	Ball	—	1.35	56	6.4	4K853	A	75.00	49.10	21
	1725	115/208-230	Ball	Auto	1.35	56	6.4	6K366	A	78.00	51.06	20
1/2	1725	115/208-230	Slv	—	1.25	56	7.0	4K154	B	82.50	54.01	23
	1725	115/208-230	Slv	Auto	1.25	56	7.0	4K643	B	85.50	55.97	23
	1725	115/208-230	Ball	—	1.25	56	10.0	4K856	A	88.50	57.94	24
	1725	115/208-230	Ball	Auto	1.25	56	7.0	5K318	B	91.50	59.90	23
3/4	1725	115/208-230	Slv	—	1.25	56	10.4	4K788	B	102.75	67.27	26
	1725	115/208-230	Slv	Auto	1.25	56	10.4	4K789	B	105.75	69.23	26
	1725	115/208-230	Ball	—	1.25	56	11.6	4K859	A	108.75	71.20	28
	1725	115/208-230	Ball	Auto	1.25	56	10.8	6K376	A	111.75	73.16	29
1	1725	115/208-230	Ball	—	1.25	56	15.0	5K922	A	120.00	78.56	32
	1725	115/208-230	Ball	Auto	1.25	56	15.0	6K321	A	123.00	80.52	32
1½	1725	115/208-230	Ball	Auto	1.15	56	21.0	6K324	A	154.50	101.15	39

(#) 1/4 HP, 56 frame motor has capacitor inside end bracket. (*) Not illustrated; very similar to Fig. A.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

ABBREVIATIONS USED IN MOTOR LISTINGS

AGMA—American Gear Manufacturers' Association
Amb—Ambient(*)
Auto—Automatic
AWG—American Wire Gauge
Brgs—Bearings(*)
CCW—Counterclockwise
Cond—Conductor, Conduit
Cont—Continuous
Conv—Convertible
CSA—Canadian Standards Assn.
Ctn—Carton
CW—Clockwise
Dia—Diameter
Dim—Dimension
Ext'd—Extended
Fig—Figure
F/L—Full-load

Ft/Lb—Foot-pound
H, HT—Height
Hor—Horizontal
HP—Horsepower
Hz—Hertz(*)
In/Lb—Inch-pound
L—Length, long
Lgth—Length
Man—Manual
Max—Maximum
Mtg—Mounting(*)
NEMA—National Electrical Manufacturers' Association(†)
OC—On center
Opp—Opposite
Para—Parallel (to shaft)
Prot—Protector
R.A.—Right angle (to shaft)

Rbr—Rubber (*)
Ref—Reference
Req'd—Required
Resil—Resilient (*)
Rev—Reversible(*)
Rot—Rotation(*)
RPM—Revolutions per minute
Slv—Sleeve(*)
Svc Fctr—Service factor(*)
Therm—Thermal(*)
TEFC—Totally enclosed, fan-cooled(*)
TENV—Totally enclosed, non-ventilated(*)
Thd—Thread
UL—Underwriters' Laboratories
V—Volts, voltage
Vert—Vertical
W—Width, wide, Watts

(*) Additional explanatory material on p. 17. (†) Additional explanatory material on p. 16.

HEAVY-DUTY OPEN, DRIPPROOF CAPACITOR MOTORS

1/4 to 1½ HP, 40°C Rise, Continuous Duty, High Starting Torque

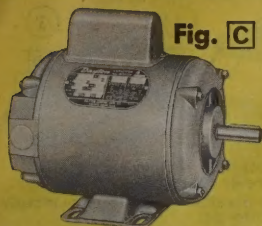


Fig. C

RIGID BASE MODELS

\$35.35

No. 6K971

Dayton

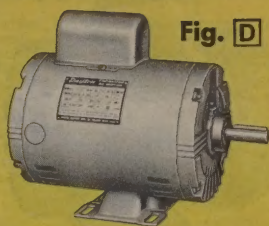


Fig. D

Dayton capacitor-start, induction-run, high-starting torque motors are designed and built for dependable service and economy on air compressors, machinery, pumps, stokers, blowers and other heavy-duty and hard-starting power equipment. All-position mounting. Sleeve bearings or pre-lubricated, double-shielded ball bearings.

40°C rise. Class A insulation, continuous duty—except No. 5K923 is 60°C rise, Class B insulation. 40°C (104°F) max. ambient. Open, drip-proof construction. Automatic-reset, manual-reset or convertible thermal protector optional. Shaft rotation easily reversed by electrical reconnection. Gray finish. Dayton brand.

1/4 to 1/2 HP, NEMA 48 FRAME, CAPACITOR-START MOTORS

HP	RPM	Volts 60 Hz	Bear- ings	Ther- mal Prot.	Serv- ice Factor	NEMA Frame (See p. 16)	Full-Load Amps @ 115V	RIGID BASE MODELS				Shpg. Wt.
								Stock No.	Fig.	Retail	Each	
1/4	1725	115/208-230	Slv	Auto	1.35	48	5.2	6K971	*	\$54.00	\$35.35	16
1/3	1725	115/208-230	Slv	Auto	1.35	48	5.8	6K973	*	64.50	42.23	18
1/2	1725	115/208-230	Ball	—	1.25	48	8.0	6K178	C	81.00	53.03	21

1/4 to 1½ HP, NEMA 56 & 66 FRAME, CAPACITOR-START MOTORS

1/4	1725	115/208-230	Slv	Auto	1.35	56	5.3	5K427 [†]	D	\$60.75	\$39.77	17
1/3	1140	115/208-230	Ball	—	1.35	56	6.4	5K118	C	112.50	73.65	26
	1725	115/208-230	Slv	Auto	1.35	56	6.0	4K925	D	70.50	46.15	19
	1725	115/208-230	Ball	—	1.35	56	7.0	4K852	C	73.50	48.12	20
	1725	115/208-230	Ball	Auto	1.35	56	7.0	5K115	C	76.50	50.08	20
	1725	115/208-230	Ball	Conv [†]	1.35	56	7.0	6K359	C	76.50	50.08	20
1/2	1140	115/208-230	Ball	—	1.25	56	10.0	5K617	C	141.00	92.31	34
	1725	115/208-230	Slv	—	1.25	56	7.0	4K153	D	81.00	53.03	21
	1725	115/208-230	Slv	Auto	1.25	56	7.0	4K926	D	84.00	54.99	21
	1725	115/208-230	Ball	—	1.25	56	10.0	4K855	C	87.00	56.96	23
	1725	115/208-230	Ball	Auto	1.25	56	10.0	5K116	C	90.00	58.92	23
	1725	115/208-230	Ball	Man	1.25	56	10.0	5K696	C	92.25	60.39	21
	1725	115/208-230	Ball	Conv [†]	1.35	56	10.0	6K389	C	90.00	58.92	23
	1725	115/208-230	Ball	—	1.25	56	10.6	6K949	C	180.00	117.84	38
3/4	1140	115/208-230	Slv	—	1.25	56	10.4	4K787	D	101.25	66.29	25
	1725	115/208-230	Slv	Auto	1.25	56	10.4	5K164	D	104.25	68.25	25
	1725	115/208-230	Ball	—	1.25	56	10.8	4K858	C	107.25	70.21	27
	1725	115/208-230	Ball	Auto	1.25	56	10.8	5K117	C	110.25	72.18	27
	1725	115/208-230	Ball	Auto	1.25	66	10.8	5K417	C	119.25	77.07	30
	1725	115/208-230	Ball	Man	1.25	56	10.8	5K694	C	112.50	73.65	27
	1725	115/208-230	Ball	—	1.25	56H	15.0	5K921	C	118.50	77.58	31
	1725	115/208-230	Ball	Auto	1.25	56H	15.0	6K148	C	121.50	79.54	31
1	1725	115/230	Ball	Auto	1.00	66	15.0	4K996 ^x	C	126.75	82.98	33
	1725	115/208-230	Ball	—	1.15	56H	21.0	5K923 [‡]	C	150.00	98.20	37
	3450	115/230	Ball	Man	1.00	66	16.4	5K242 [‡]	C	129.00	84.45	35

(†) Convertible protector—thermal protector factory-set for automatic-reset operation; removal of breakaway cover permanently converts protector to manual-reset operation. (x) 50° rise.

(‡) 40°C ambient, class B insulation. (#) ¼ HP, 56 frame, motor has capacitor inside end bracket.

(*) Not illustrated; very similar to Fig. C.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

You'll like what you see at Grainger's—the large, well-kept stock—the well-informed men and women who serve you.

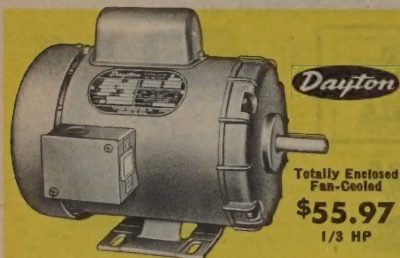


So, the next time you need something, come in and see how well we are set up to give you quick, competent service.

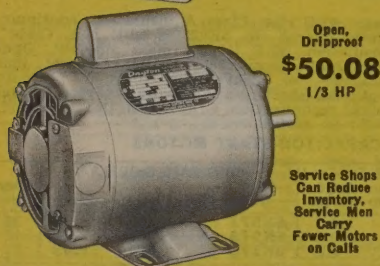
SEE WARRANTY INFORMATION ON PAGE 684

CAPACITOR MOTORS WITH CONVERTIBLE PROTECTOR

1/3 and 1/2 HP, 1725 RPM, 115/208-230V, 60 Hz, Open, Dripproof or Totally Enclosed, Fan-Cooled

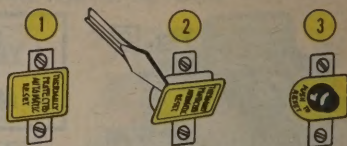


Totally Enclosed
Fan-Cooled
\$55.97
1/3 HP



Open,
Dripproof
\$50.08
1/3 HP

Service Shops
Can Reduce
Inventory,
Service Men
Carry
Fewer Motors
on Calls



1. Thermal protector factory-set for automatic-reset operation
2. Removal of breakaway cover permanently converts motor to:
3. Manual-reset operation.

Unique design with convertible thermal protector lets service shop carry smaller inventory, allows service men to carry fewer motors when making calls.

As supplied, motor is set for automatic-reset thermal protection; can be converted in seconds at time of installation to manual-reset operation, for applications where unexpected starting would be hazardous.

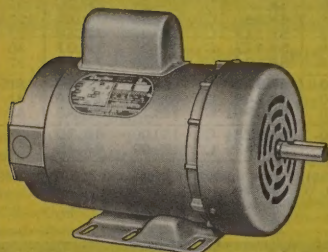
1/3 and 1/2 HP, capacitor-start, induction-run motors, 1725 RPM, 115/208-230V, 60 Hz, rigid mounting base. Double-shielded, prelubricated ball bearings. 40°C ambient. Class A insulation, except No. 6K808 which is class B. Rated for continuous duty operation. NEMA 56 frame. Rotation easily reversed by electrical reconnection. Gray finish. Dayton brand.

1725 RPM, 115/208-230V, 60 Hz, NEMA 56 FRAME, WITH CONVERTIBLE THERMAL PROTECTOR

HP	RIGID MOUNT		Temp. Rise °C	Service Factor	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
	Bearings	Enclosure							
1/3	Ball	Open, Dripproof	40°	1.35	7.0	6K359	\$76.50	\$50.08	20
	Ball	Totally Enclosed, Fan-Cooled	55°	1.0	7.0	5K889	\$85.50	\$55.97	20
1/2	Ball	Open, Dripproof	40°	1.35	8.6	6K389	90.00	58.92	23
	Ball	Totally Enclosed, Fan-Cooled	75°	1.0	8.6	6K808	99.00	64.81	23

DUST-TIGHT CAPACITOR-START MOTORS

1/2, 3/4 & 1 HP, 1725 RPM, 115/230V, 60 Hz. Totally Enclosed, Fan-Cooled. Thermal Protection.



Dayton

\$68.74

1/2 HP

Totally enclosed, dust-tight motors especially designed for use in extremely dusty, dirty and moisture-laden atmospheres such as found on farm jobs—conveyors, tools, pumps, blowers and other general-purpose applications. Totally enclosed, with heavy external die-cast aluminum cooling fan on shaft end. Openings in fan shroud are extra large to help prevent grain kernels from clogging or damaging fan. Capacitor-start, induction-run, 1725 RPM, 115/230V, 60 Hz. Rigid base. Pre-lubricated ball bearings with sealed ball bearing on shaft end. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. Manual reset thermal protection. NEMA 56H frame, 5/8" dia. x 1 1/2" long keyed shaft. Rotation reversed by electrical reconnection. Gray. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

NOTE: Not recommended for use where explosion-proof motors are required.

HP	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/2	8.6	6K327	\$105.00	\$68.74	25
3/4	10.6	6K377	125.25	82.00	32
1	13.2	6K223	136.50	89.36	33

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

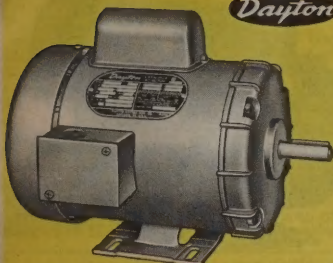
Use Fast Grainger Supply Service — Large Stocks Maintained Near You
You Are Served by Experienced Men and Women Who Know Your Needs

NET WHOLESALE PRICES—W.W.GRAINGER, INC.

TOTALLY ENCLOSED DAYTON CAPACITOR MOTORS

1/4 to 2 HP, 1140, 1725 & 3450 RPM, 115/208-230V. NEMA 48, 56 & 66 Frames

Dayton



NEMA
56 FRAME

\$49.59

1/4 HP
No. 5K282

Capacitor-start, induction run motors, totally enclosed and externally fan cooled to provide protection when used in adverse atmospheres. Built for economical, dependable service in dusty, oily and dirty ambients. Used on tools, pumps, blowers, conveyors, farm jobs, and other general purpose applications. 115/208-230V, 60 Hz. Pre-lubricated, double-shielded, ball bearings.

40°C ambient, 1.0 service factor, Class A (55° rise) or Class B (75° rise) insulation, continuous duty. Dynamically balanced rotor. Varnish-dipped stator for improved moisture resistance. Heavy steel stator shell, stamped steel base. Automatic-reset, manual-reset or convertible thermal protection available. Positive-action, centrifugal switch.

Rotation easily reversed by electrical reconnection. Large conduit box; leads for simplified wiring. Quality-built to comply with NEMA performance standards. Gray enamel finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

1/2 HP, BALL BEARING, NEMA 48 FRAME MODEL

HP	RPM	Bear-ings	Insul-ation Class	Ther-mal Prot.	NEMA Frame (See P. 16)	Full-Load Amps @ 115V	RIGID BASE TYPE			RESILIENT BASE TYPE			Shpg. Wt.
							Stock No.	Retail	Each	Stock No.	Retail	Each	
1/2	1725	Ball	A	—	48	8.0	6K177	\$90.00	\$58.92	—	—	—	22

1/4 to 2 HP, BALL BEARING, NEMA 56 & 66 FRAME MODELS

1/4	1725	Ball	A	—	56	5.6	5K262	\$75.75	\$49.59	—	—	—	19
	1725	Ball	A	Auto	56	5.6	5K263	78.75	51.56	5K410	\$80.25	\$52.54	19
1/3	1140	Ball	A	—	56	6.4	5K502	121.50	79.54	—	—	—	27
	1725	Ball	A	—	56	7.0	4K936	82.50	54.01	—	—	—	20
	1725	Ball	A	Auto	56	7.0	5K121	85.50	55.97	5K411	87.00	56.96	21
	1725	Ball	A	Manual	56	7.0	5K636	87.75	57.45	—	—	—	21
	1725	Ball	A	Conv†	56	7.0	5K889	85.50	55.97	—	—	—	20
1/2	1140	Ball	A	—	56	10.0	5K672‡	150.00	98.20	—	—	—	37
	1725	Ball	B	—	56	9.6	6K937	96.00	62.85	—	—	—	25
	1725	Ball	B	Auto	56	9.6	6K122	99.00	64.81	6K477	100.50	65.79	27
	1725	Ball	B	Manual	56	9.6	6K637	101.25	66.29	—	—	—	26
	1725	Ball	B	Conv†	56	9.6	6K808	99.00	64.81	—	—	—	23
3/4	1725	Ball	B	—	56	10.8	6K938	116.25	76.11	—	—	—	28
	1725	Ball	B	Auto	56	10.8	6K123	119.25	78.07	6K478	120.75	79.05	30
	1725	Ball	B	Manual	56	10.8	6K639	121.50	79.54	—	—	—	29
	3450	Ball	A	Manual	56	9.8	6K358	90.00	58.92	—	—	—	26
1	1725	Ball	B	Auto	56H	14.4	6K562	130.50	85.43	—	—	—	33
	1725	Ball	B	—	66	14.4	6K962	136.50	89.36	—	—	—	34
	1725	Ball	B	Auto	*	14.4	6K124*	139.50	91.33	6K810*	132.00	86.42	45
	1725	Ball	B	Manual	56H	14.4	6K640	132.75	86.91	—	—	—	33
	3450	Ball	A	Manual	56	12.0	5K960	102.00	66.78	—	—	—	28
1½	1725	Ball	B	Auto	56H	18.0	5K565‡	162.00	106.06	—	—	—	41
	1725	Ball	B	Manual	56H	18.0	5K641‡	164.25	107.53	—	—	—	41
	3450	Ball	A	Manual	56H	16.4	6K338	129.00	84.45	—	—	—	34
2	3450	Ball	B	Manual	56H	20.4	5K961	156.00	102.13	—	—	—	39

(†) Convertible protector—thermal protector factory-set for automatic-reset operation; removal of breakaway cover permanently converts protector to manual-reset operation.

(‡) Capacitor-start, capacitor-run type motor.

(*) No. 6K124 is NEMA 66 frame; No. 6K810 is NEMA 56 frame.

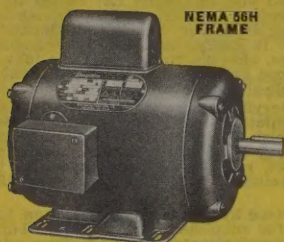
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

NEMA STANDARDS ON ELECTRIC MOTORS LISTED HEREIN

Electric motors listed in this catalog are manufactured to the dimensional, performance, and electrical standards established by NEMA (National Electrical Manufacturers Association).

DAYTON **LONG-LIFE** CAPACITOR-START MOTORS

Extra-Heavy Construction for Lasting Dependability. 1725 RPM, 115/208-230V, 60 Hz
Cast-Iron End Bells, Double-Sealed Ball Bearings, Double-Dip Varnish on Windings



NEMA 56H
FRAME

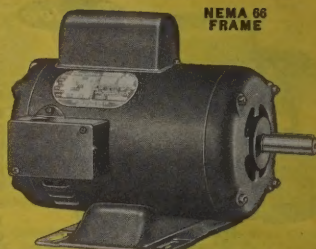
400%
STARTING
TORQUE

1725 RPM

\$63.34

1/2 HP

Dayton

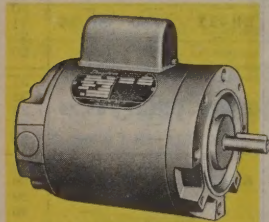


NEMA 66
FRAME

Dayton Long-Life motors are designed to fully satisfy the user who demands the utmost in dependability, durability and ultimate economy. These tough, rugged capacitor-start motors are built for long-life service on air compressors, pumps, blowers, stokers and other power equipment. Heavy-duty, cast-iron endbells for greater rigidity and corrosion resistance. Windings are double-dipped in varnish and baked to resist moisture and abrasives, and assure longer in-

sulation life. 1725 RPM, 115/208-230V, 60 Hz. Large, double-sealed, pre-lubricated ball bearings protect against dirt and moisture. 40°C ambient. 1.25 service factor, Class A insulation (40°C rise), continuous duty. Open, drip-proof construction. Manual reset thermal protection, except No. 6K204. NEMA 56H and 66 frame models with rigid steel base for stable mounting. Rotation easily reversed by electrical reconnection. Black. CSA approved. Dayton brand.

HP	RPM	Volts 60 Hz	Mounting Holes OC	NEMA Frame	Shaft Dia.	Long	Thermal Protection	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/2	1725	115/208-230	4 7/8 x 3 & 5"	56H	5/8"	1 7/8"	Manual	8.8	6K198	\$96.75	\$63.34	32
3/4	1725	115/208-230	4 7/8 x 3 & 5"	56H	5/8"	1 7/8"	Manual	11.4	6K200	117.00	76.60	34
1	1725	115/208-230	5 7/8 x 5	66	3/4"	2 1/4"	—	15.0	6K204	131.63	86.17	44
	1725	115/208-230	5 7/8 x 5	66	3/4"	2 1/4"	Manual	15.0	6K205	136.50	89.36	44



C-FACE CAPACITOR MOTORS

1/3 to 1 1/2 HP, 1725 RPM. Open and Totally Enclosed Models

Dayton

\$42.23

No. 5K339

Heavy-duty open and enclosed motors for direct drive jobs—pumps, machine tools, speed reducers and others that require NEMA C face mounting. 1725 RPM, 115/208-230 or 115/230V, 60 Hz. Face mount on all ratings, rigid mount available on 1/3 and 1/2 HP open, drip-proof models. Pre-lubricated ball bearings. 40°C ambient. Class A or B insulation, continuous duty, open, drip-proof and TEFC models. Totally enclosed models supplied with conduit box. NEMA 56C face (dimensions on p. 16), 5/8" dia. x 1 1/8" long shaft with key. Rotation reversed by electrical reconnection. Rigid base mounting holes 4 7/8 x 3". Shaft height 3 1/2". Gray. CSA approved. Dayton brand.

OPEN, DRIPPROOF MODELS WITH NEMA 56C FACE

HP	RPM	Volts 60 Hz	°C Rise	Service Factor	Insulation Class	Thermal Protection	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115/208-230	50	1.0	A	—	8.0	5K339	\$64.50	\$42.23	17
1/3	1725	115/208-230	40	1.35	A	Auto	6.4	6K005	80.25	52.54	19
1/2	1725	115/208-230	50	1.0	A	—	10.0	5K340	77.25	50.57	21
3/4	1725	115/208-230	40	1.25	A	—	10.8	5K435	107.25	70.21	27
1	1725	115/208-230	50	1.0	A	—	15.0	5K673	118.50	77.58	30

OPEN, DRIPPROOF MODELS WITH NEMA 56C FACE AND NEMA 56 FRAME RIGID MOUNTING BASE

1/3	1725	115/208-230	40	1.35	A	—	6.4	5K109	\$78.75	\$51.56	20
1/2	1725	115/208-230	40	1.25	A	—	10.0	5K110	92.25	60.39	22

TOTALLY ENCLOSED, FAN-COOLED MODELS WITH NEMA 56C FACE

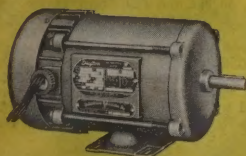
1/3	1725	115/230	55	1.0	A	—	7.0	5K341	\$86.25	\$56.47	20
1/2	1725	115/230	75	1.0	B	—	8.6	6K342	99.75	65.30	22
3/4	1725	115/230	75	1.0	B	—	10.8	6K436	116.25	76.11	28
1	1725	115/230	75	1.0	B	—	14.4	6K674	128.25	83.96	32
1 1/2	1725	115/230	75	1.0	B	—	18.0	6K702†	162.75	106.55	38

(†) Capacitor-start, capacitor-run type motor.

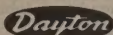
All motors on page recognized by UL for construction under Motor Component Recognition Program

EXPLOSION-PROOF SINGLE PHASE MOTORS

1/4 to 1 HP Capacitor and Split Phase Types. Ball Bearings. UL Listed. NEMA 56 and 56C Frame



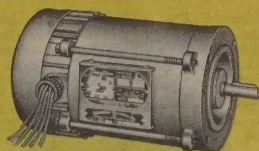
RIGID-MOUNT TYPE



\$70.21

No. 6K734

Dayton explosion proof motors, listed by Underwriter's Laboratories for use in Class I Group D, & Class II Groups E, F and G hazardous locations. Widely used for general applications or fan duty in atmospheres containing combustible gases, dust or vapors where motors listed and labeled by



FLANGE-MOUNT TYPE

UL are required. 1725 RPM, 60 Hz. Double-shielded ball bearings. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. 1/4 HP motors are totally enclosed, non-

ventilated; 1/3 to 1 HP motors are totally enclosed, fan-cooled. 3/4" dia. x 1 1/2" long shaft with key. Shaft rotation easily reversed by electrical reconnection. Gray enamel finish. Dayton brand.

NEMA 56 FRAME RIGID-MOUNT EXPLOSION-PROOF MOTORS

HP	RPM	Volts 60 Hz	Motor Type	Thermal Protection	NEMA Frame	Ventilation	Full-Load Amps @ 115V	Stock No.	Less Conduit Box Retail	Each	Shpg. Wt.
1/4	1725	115	Split Phase	Auto	56	Non-vent.	4.5	6K734	\$107.25	\$70.21	27
	1725	115/230	Capacitor	Auto	56	Non-vent.	4.5	6K034	129.75	84.94	28
1/3	1725	115	Split Phase	Auto	56	Fan-Cooled	6.4	6K738	118.50	77.58	25
	1725	115/230	Capacitor	Auto	56	Fan-Cooled	6.4	6K036	142.50	93.29	27
1/2	1725	115/230	Capacitor	Auto	56	Fan-Cooled	8.6	6K039	156.00	102.13	30
3/4	1725	115/230	Capacitor	Auto	56	Fan-Cooled	10.6	6K040	176.25	115.39	36
1	1725	115/230	Capacitor	Auto	56	Fan-Cooled	13.0	6K041	187.50	122.75	41

NEMA 56C FACE-MOUNT EXPLOSION-PROOF MOTORS

1/3	1725	115/230	Capacitor	Auto	56C	Fan-Cooled	6.4	6K330	\$146.25	\$95.75	27
1/2	1725	115/230	Capacitor	Auto	56C	Fan-Cooled	8.6	6K333	159.75	104.58	30
3/4	1725	115/230	Capacitor	Auto	56C	Fan-Cooled	10.6	6K728	180.00	117.84	36



EXPLOSION-PROOF CONDUIT BOX FOR ABOVE

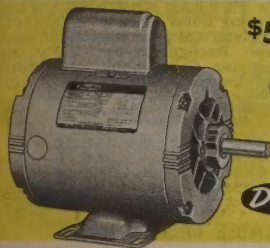
Explosion-proof conduit box built especially for use on all of the above Dayton explosion-proof motors. Has hole for self-tapping grounding screw. Easily installed. UL listed. Gray finish, 4 lbs.

No. 4X788. Explosion-Proof Conduit Box. Retail \$10.52. Each\$8.48

EXPLOSION-PROOF 3-PHASE MOTORS—See Index Under Motors, Special Types, Explosion Proof

1/3 to 3/4 HP INSTANT-REVERSE CAPACITOR MOTORS

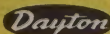
1725 RPM, 115V, 60 Hz. Ball Bearings. Manual Reset Thermal Protection. NEMA 56 Frame



\$58.18

1/3 HP

**NEMA 56
Frame**



Dayton instant-reverse motors designed for such applications as mechanical doors, gates, hospital beds, hoists and other equipment where instant electrical reversibility is desired. Reversing device built into motor end bell; no relay required. Maximum cycling rate five times per minute. Capacitor-start, 1725 RPM, 115V, 60 Hz, ball bearing, rigid mount, open, drip-proof construction. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise). Manual reset thermal protection.

NEMA 56 frame, 3/4" dia. x 1 1/2" long shaft with key; mounting dimensions on page 16. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

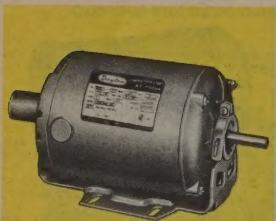
Use of No. 2X469 double pole toggle switch recommended for controlling these motors; see Index under Switches and Controls, Toggle.

HP	RPM	Volts 60 Hz	Bearings	NEMA Frame (See pg. 16)	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115	Ball	56	6.4	6K415	\$88.88	\$58.18	19
1/2	1725	115	Ball	56	9.4	6K388	103.13	67.51	23
3/4	1725	115	Ball	56	12.6	6K880	124.28	81.36	27

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

1/3 HP, 1 & 2-SHAFT SPLIT PHASE TOOL MOTORS

3450 RPM, 115V, 60 Hz. For Moderate Tool Loads. NEMA 48 Frame



Shown: No. 5K600

Dayton

\$25.53

1-Shaft

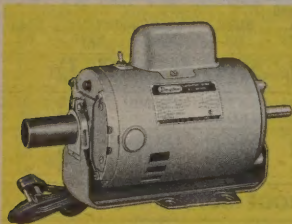
Widely used for a variety of high-speed moderate-load tool jobs. 115V, 60 Hz, 6.6 full-load amps, split phase, 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. NEMA 48 frame, open, dripproof construction. Rigid mounted on cradle base. 1/2" dia. x 1 1/2" long shaft with flat; shaft height, 3". All-position sleeve bearings. Rotation easily reversed by electrical reconnection. Mounting holes 4 1/4 x 2 3/4". Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

Shaft	HP	RPM	Stock No.	Retail	Each	Shpg. Wt.
Single	1/3	3450	5K586	\$39.00	\$25.53	14
Double	1/3	3450	5K600*	41.25	27.01	14

(*) Supplied with removable shaft cover.

1 HP, 3450 RPM, 2-SHAFT CAPACITOR TOOL MOTOR

Ball Bearings, Dustproof Starting Switch. 6 Ft. Cord & Switch



Dayton

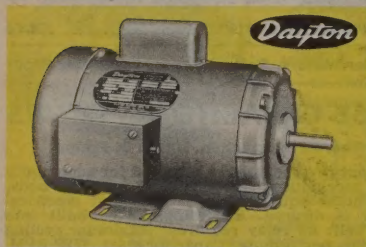
\$73.65

For tools and other moderate starting torque jobs. 3450 RPM, 115/230V, 60 Hz, 14.0 full-load amps, capacitor-start type. Rigid cradle type base. Ball bearings. 50°C rise, 1.0 service factor, Class A insulation, continuous duty. Manual reset thermal protection. Dripproof NEMA 56 frame. Double, 1 1/8" long keyed shafts; shaft on switch end is 1/2" dia., shaft opposite switch end is 5/8" dia. Starting switch arm is dust proof. On-Off switch on motor. 6 ft. 14/3 SJT cord set is wired to motor for 115V operation. 3 1/2" shaft height. Supplied with removable shaft cover. Mounting holes 4 1/4 x 3", length 13 1/4". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand. Shpg. wt. 27 lbs.

No. 6K720. Retail \$112.50. Each **\$73.65**

3/4 to 2 HP TEFC CAPACITOR-START MOTORS

3450 RPM, 115/208-230V, 60 Hz. Thermal Protection. NEMA 56 Frame. Ball Bearings



Dayton

\$58.92

3/4 HP

Totally enclosed and externally fan-cooled 3450 RPM capacitor-start, induction-run motors designed for operation in areas of dust, dirt, and airborne abrasives. Built for use on belted fans and blowers, belted table saws, high-speed drill presses, lathes, etc. 115/208-230V, 60 Hz. Rigid base. Pre-lubricated, double-shielded ball bearings. 40°C ambient. 3/4 and 1 HP have Class A insulation (55°C rise); 1 1/2 and 2 HP have Class B insulation (75°C rise). Rated for continuous duty operation. Manual reset thermal protection. NEMA 56 frames with 5/8" dia. x 1 1/8" long shaft with keyway. 3 1/2" shaft height, mounting holes 4 1/4 x 3". Shaft rotation easily reversed by electrical reconnection in large conduit box. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

HP	RPM	Volts 60 Hz	Bear- ings	NEMA Frame	Dia.	Shaft Long	°C Rise	Insulation Class	Stock No.	Retail	Each	Shpg. Wt.
3/4	3450	115/208-230	Ball	56	5/8"	1 1/8"	55	A	6K358	\$90.00	\$58.92	26
1	3450	115/208-230	Ball	56	5/8"	1 1/8"	55	A	5K960	102.00	66.78	28
1 1/2	3450	115/208-230	Ball	56	5/8"	1 1/8"	75	B	6K338	129.00	84.45	34
2	3450	115/208-230	Ball	56	5/8"	1 1/8"	75	B	5K961	156.00	102.13	39

FACTORY PARTS FOR DAYTON MOTORS AVAILABLE FROM STOCK

Genuine Dayton replacement parts are available from large Chicago stock. Same day shipping service. Single phase Dayton motor parts include: Centrifugal Switches (rotating & stationary), Bearings, Capacitors, Overload Protectors, Internal & External Fans, Capacitor

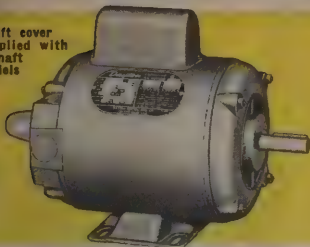


Covers, etc. Include Dayton motor stock and model number on order and send to nearest Grainger address.

Dayton Motor Parts List No. 5S1040 is available to motor repairers—request copy from your Grainger salesman or Sales Office/Warehouse.

POWER TOOL CAPACITOR-START MOTORS

Shaft cover
supplied with
2-shaft
models



1/2 to 1 1/2 HP, 1725 or 3450 RPM. 115/230V, 60 Hz
Ball Bearings. Double Shafts on 1/2 & 3/4 HP

Dayton

\$46.15

No. 5K285

Single and double-shaft, ball bearing Dayton capacitor-start, induction-run motors packed with power for many popular applications—power tools, pumps, fans, blowers, etc. 1725 and 3450 RPM, 115/230V, 60 Hz. Rigid mount. Double-shielded, pre-lubricated, ball bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Not designed for hard-starting compressors. Open, drip-proof construction. NEMA 56 and 66 frames. Removable shaft cover supplied with double shaft models. Rotation easily reversed. Gray finish. CSA approved. Dayton brand.

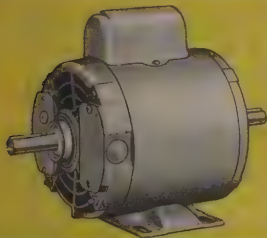
HP	RPM	Volts 60 Hz	Bear- ings	Thermal Protection	Shaft Type	NEMA Frame (See p. 16)	Full-Load Shaft Dia.	Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
DOUBLE-SHAFT CAPACITOR-START TOOL MOTORS												
1/2	1725	115/230	Ball	—	Double	56	5/8	8.6	4K781	\$79.50	\$52.05	24
	3450	115/230	Ball	—	Double	56	5/8	8.0	5K285	70.50	46.15	21
3/4	1725	115/230	Ball	—	Double	56	5/8	10.8	4K783	93.00	60.88	27
	3450	115/230	Ball	—	Double	56	5/8	9.8	5K286	81.75	53.52	26

SINGLE-SHAFT CAPACITOR-START TOOL MOTOR

1 1/2	3450	115/230	Ball	Manual	Single	66	3/4	16.4	5K242	\$129.00	\$84.45	35
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2-SHAFT CAPACITOR MOTORS

1/2 to 1 HP, 1725 and 3450 RPM. Thermal Protection



\$45.54

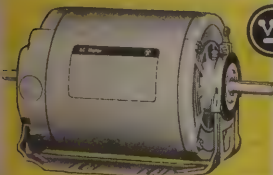
3/4 HP

Double-shaft, capacitor-start Westinghouse motors built for low-cost, dependable workshop tool power—saws, jointer-planers, grinders, etc. 1/2 to 1 HP, 1725 and 3450 RPM models, 115 and 115/230V, 60 Hz. Sleeve and ball bearing design units. Welded rigid steel base mounting. 50°C rise, 1.0 service factor. 40°C ambient, continuous duty. Open, drip-proof construction. Manual reset thermal protected models as listed. NEMA 56 frame with 5/8" dia. x 1 1/4" long keyed shaft extending from both ends of motor. Shaft rotation easily reversed by electrical reconnection. 3 1/2" shaft height, mounting holes 4 1/4" x 3". Gray finish. CSA approved. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bear- ings	NEMA Frame (See p. 16)	Thermal Protec- tion	Full-Load Amps @ 115V	°C Rise	Insu- lation Class	Westing- house Style No.	Stock No.	Each	Shpg. Wt.
1/2	1725	115	Ball	56	Manual	8.2	50	A	312P480	6K012	\$52.37	20
3/4	3450	115/230	Slv.	56	—	11.5	70	B	311P159	4K526	45.54	22
1	3450	115/230	Ball	56	Manual	12.5	70	B	311P069	6K014	65.27	27

1/3 HP 2-SHAFT MOTOR

Split-Phase. 1725 RPM, 115V, 60 Hz. For Tools



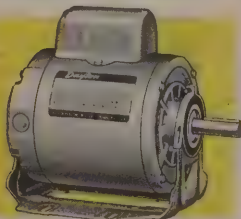
\$29.85

Westinghouse motor for moderate load tool jobs, etc. 115V, 60 Hz, 6.2 amp split-phase motor. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Double 1/2" dia. shafts, 3 1/2" base to shaft center. NEMA 56 frame (dimensions on p. 16.) Rotation easily reversed by electrical reconnection. Nylon thrust washer permits all-angle mounting. Resilient mounted. Gray finish. CSA approved. Westinghouse style No. 317P030. Shpg. wt. 15 lbs.

No. **6K076**. Retail \$44.25. Each **\$29.85**

1/3 HP HI-LOAD MOTOR

Capacitor-Start. 1725 RPM, 115/230V, 60 Hz



Dayton

\$36.83

Built for compressor, tool, pump, blower, and similar applications. 1/3 HP, 1725 RPM, 115/230V, 60 Hz. 7.0 amp. Capacitor-start type. Resilient-mounted. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Husky sleeve bearings. 5/8" x 1 1/4" keyed shaft. Rotation reversed by electrical reconnection. Gray finish. CSA approved. Dayton brand. Shpg. wt. 17 lbs.

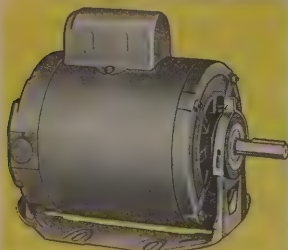
No. **4K605**. Retail \$56.25. Each **\$36.83**

All motors on page recognized by UL for construction under Motor Component Recognition Program

SEE WARRANTY INFORMATION ON PAGE 684

WESTINGHOUSE CAPACITOR-START MOTORS

1/4 to 1 HP, 50°C Rise, Continuous Duty. 115, 115/230 and 230V, 60 Hz. NEMA 48 & 56 Frame Models



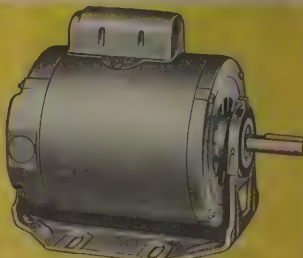
NEMA 48 FRAME



\$33.90

1/4 HP
No. 5K305

For general-purpose applications. Precision engineered to highest Westinghouse standards. Die-cast rotor. Varnish-impregnated windings. Humidity-resisting insulation. Fan ventilated. Quiet operating. Rigid or resilient mounting. Sleeve bearing motors have nylon thrusts for all-posi-



NEMA 56 FRAME

tion mounting. Ball bearing motors are grease sealed. 40°C ambient, 1.0 service factor, continuous duty. 1/4 thru 1/2 HP motors have Class A insulation (50°C rise); 3/4 and 1 HP models have Class B insulation (70°C rise). Open, drip-proof construction. Double-shaft models are noted by footnote symbol in table. Manual reset

thermal protected models are listed in table. Rotation easily reversed by electrical reconnection. Terminal board has stud and spade terminals. Gray enamel finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bear- ings	Mount- ing	Thermal Protec- tion	NEMA Frame (See p. 16)	Full-Load Amps @115V	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Sleeve	Rigid	—	48	5.2	316P295	5K305	\$50.25	\$33.90	13
	1725	115	Sleeve	Resilient	—	48	6.1	316P296	5K306	50.25	33.90	14
	1725	115	Sleeve	Resilient	—	56	6.1	317P043	6K077	50.25	33.90	15
1/3	1725	115	Sleeve	Rigid	—	48	6.4	316P297	5K307	51.75	34.91	15
	1725	115	Sleeve	Resilient	—	48	6.4	316P298	5K308	53.25	35.93	16
	1725	115	Sleeve	Resilient	—	56	7.0	317P054	6K078	53.25	35.93	17
	1725	115/230	Sleeve	Rigid	—	56	7.0	317P055	6K079	54.75	36.94	16
	1725	115/230	Sleeve	Resilient	—	56	7.0	317P056	6K080	56.25	37.95	17
1/2	1725	115	Ball	Rigid	Manual	56§	9.8	312P480	6K012§	77.63	52.37	20
	1725	115/230	Sleeve	Rigid	—	56	9.0	317P060	6K081	67.50	45.54	18
	1725	115/230	Sleeve	Resilient	—	56	9.0	317P061	6K082	69.00	46.55	19
	1725	115/230	Ball	Resilient	—	56	9.0	317P063	6K085	75.00	50.60	20
3/4	1725	115/230	Sleeve	Rigid	—	56	13.0	312P483	4K693	81.00	54.65	22
	1725	115/230	Sleeve	Resilient	—	56	13.0	312P484	4K820	82.50	55.66	23
	1725	115/230	Ball	Rigid	Manual	56	13.0	312P929	5K302	92.25	62.24	29
	3450	115/230	Sleeve	Rigid	—	56§	11.5	311P159	4K526§	67.50	45.54	22
1	1725	115/230	Sleeve	Rigid	Manual	56	13.8	312P500	5K238	114.00	76.91	26
	1725/1140†	230	Sleeve	Resilient	—	56	6.7*	311P397	6K137	147.00	99.18	40
	3450	115/230	Ball	Rigid	Manual	56§	12.5	311P069	6K014§	96.75	65.27	27

(§) Double shaft extensions. (*) Full-load amps @ 230V. (†) 1/3 HP at 1140 RPM.

NEMA SHAFT AND MOUNTING DIMENSIONS FOR THESE MOTORS ON PAGE 16

STEWART-WARNER 4000 RPM PORTABLE TACHOMETER

Easy-Reading Scale. Accurate Within 2%. CW or CCW

\$13.77

Lots 6

Measures 50 to 4000 RPM shaft speed on any open-ended shaft instantly. Use on motors, saws, compressors, fans, pumps, grinders, etc. Reads directly in RPM. Accurate within plus or minus 2%. 2 3/4" dia. scale divided in 50 and 100 RPM steps, large numerals every 500 RPM.

Has magnetic damper for steady pointer indication. With cup-shaped tip for flat-end shafts, cone-shaped tip for shafts with center holes. Magnetic mechanism is enclosed in dust and waterproof steel case, 2 3/4" dia., 4" long overall. Stewart-Warner brand (757W). Shpg. wt. 14 oz.

No. 2X132. Retail \$25.50. Each \$15.81; lots 6.....\$13.77



**5-DAY
LIMITED
WARRANTY**

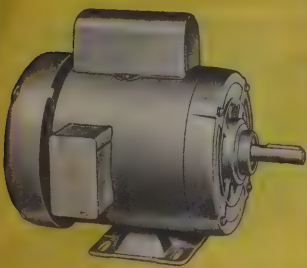
See Limited
Warranty Policy
in Index

Thousands of Dealers and Service Men
Depend On Grainger Supply Service
For Pick-ups and Same-Day Shipping



TOTALLY ENCLOSED, FAN-COOLED CAPACITOR MOTORS

1/3 to 1 HP, 1725 RPM, 115/230V, 60 Hz. Ball Bearings
Automatic Reset Thermal Protection

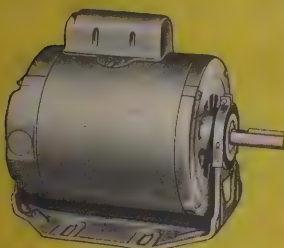


\$57.68 1/3 HP
Built for top performance in dust, dirt and moisture-laden atmospheres. Totally enclosed, fan-cooled construction. Westinghouse capacitor-start type with high-starting torque. 1725 RPM, 115/230V, 60 Hz. Rigid base mounting. Permanently-lubricated ball bearings. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Automatic reset thermal protection. NEMA 56 and 56H frames, 5/8" dia. x 1 1/8" long keyed shaft. Rotation easily reversed by electrical reconnection. Large conduit box. 3 1/2" shaft height. Base mounting holes 4 7/8" x 3" for NEMA 56 frame, and 4 7/8 x 3 and 5" for NEMA 56H frame. Used for industrial fans, blowers, unit heaters, farm dryers, conveyors, pumps, cement mixers, air compressors, etc. Gray finish. Recognized by Underwriters' Laboratories for construction under the Motor Component Recognition Program. CSA approved. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bear- ings	Mounting	Thermal Protec- tion	NEMA Frame (See p. 16)	Full- Load Amps @115V	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115/230	Ball	Rigid	Auto	56	6.6	312P798	5K606	\$85.50	\$57.68	20
1/2	1725	115/230	Ball	Rigid	Auto	56	8.7	312P795	5K607	99.00	66.79	25
3/4	1725	115/230	Ball	Rigid	Auto	56	11.2	312P788	5K608	119.25	80.45	32
1	1725	115/230	Ball	Rigid	Auto	56H	14.0	312P791	5K609	130.50	88.04	37

HEAVY-DUTY WESTINGHOUSE CAPACITOR MOTORS

1/4 to 3/4 HP, 1725 RPM, 60 Hz and 1425 RPM, 50 Hz Models. 40°C Rise, Continuous Duty



\$35.93 1/4 HP, 115V
Heavy-duty, quality-built, Westinghouse capacitor-start, induction-run, motors engineered for top performance on air compressors, pumps, tools, stokers and other hard-starting applications. 1725 RPM, 60 Hz and 1425 RPM, 50 Hz. Resilient mounted except No. 5K798 has rigid mounting. Nylon thrusts on sleeve bearing motors allow all-position mounting. 40°C ambient, continuous duty. Open, dripproof construction. Die-cast rotor. Fan ventilated. Humidity-resisting insulation. Automatic reset thermal protected models as listed. NEMA 48 frame model has 1/2" dia. x 1 1/2" long shaft with flat. 3" shaft height, mounting holes 4 1/4 x 2 3/4". NEMA 56 frame models have 5/8" dia. x 1 7/8" long shaft with key, 3 1/2" shaft height, mounting holes 4 7/8 x 3". Rotation easily reversed by electrical reconnection. Terminal board has stud and spade terminals. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse brand.

60 Hz, TYPE FJ, 40°C AMBIENT, CONTINUOUS DUTY

HP	RPM	Volts	NEMA Frame (See p. 16)	Thermal Protec- tion	Full- Load Amps @115V	°C Rise	Service Factor	Insu- lation Class	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Each
1/4	1725	115	56	—	5.1	40	1.35	A	317P013	6K107	\$53.25	\$35.93	16
	1725	115/230	48	Auto	4.9	40	1.35	A	316P715	5K756	59.25	39.97	15
1/3	1725	115/230	56	—	5.8	40	1.35	A	317P014	6K108	69.00	46.55	17
	1725	115/230	56	Auto	5.8	40	1.35	A	317P015	6K120	72.00	48.58	18
1/2	1725	115/230	56	—	8.0	40	1.25	A	312P414	5K253	82.50	55.66	24
	1725	115/230	56	Auto	8.0	40	1.25	A	312P417	5K790	85.50	57.68	23
3/4	1725	115/230	56*	—	13.0	60	1.25	B	312P437	5K798	101.25	68.31	25
	1725	115/230	56	—	11.4	60	1.25	B	312P440	5K254	102.75	69.32	26
	1725	115/230	56	Auto	11.4	60	1.25	B	312P436	5K801	105.75	71.35	26

50 Hz, TYPE FJ, 40°C AMBIENT, CONTINUOUS DUTY

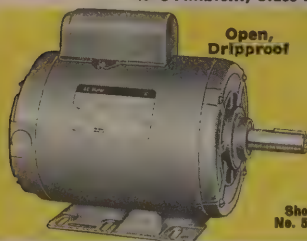
HP	RPM	Volts	NEMA Frame	Thermal Protec- tion	Full- Load Amps	°C Rise	Service Factor	Insu- lation Class	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Each
1/3	1425	110/220	56	—	7.2	40	1.35	A	312P658	5K111	\$78.00	\$52.62	23
1/2	1425	110/220	56	—	8.6	40	1.25	A	312P659	5K112	91.50	61.73	27
3/4	1425	110/220	56	—	11.4	60	1.25	B	312P660	5K834	111.75	75.39	32

(*) Rigid mounting, all others have resilient mounting.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

56HZ COMBINATION BASE CAPACITOR MOTORS

NEMA 56HZ, 143T and 145T Frame. 1800 RPM, 115/230V, 60 Hz. Double Shielded Ball Bearings
40°C Ambient, Class B Insulation. Dripproof or TEFC Construction



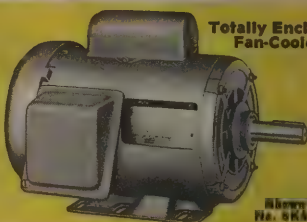
Open,
Dripproof

\$81.97

1 HP, Open,
Dripproof



Shown:
No. 5K642



Totally Enclosed,
Fan-Cooled

Shown:
No. 5K645

Compact motors, built for general-purpose applications. All have double-shielded, permanently lubricated ball bearings. Open, dripproof models have 60°C rise, 1.15 service factor; TEFC models have 75°C rise, 1.0 service factor. Class B insulation, 40°C (104°F) ambient, continuous duty. 2 HP, open, dripproof model 5K645 has external fan with cooling shroud for more efficient cooling. 1½ HP, TEFC model 6K510 is ca-

pacitor-start, capacitor-run type, has two top-mounted capacitors. Rigid, welded mounting base of NEMA 56HZ frame has holes and slots to match NEMA 56, 56H, 143T and 145T mounting dimensions. ¾" dia. x 2¼" long keyed shaft. 3½" shaft height. Rotation easily reversed. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse brand.

DRIPPROOF, 1800 RPM, 115/230V, 60 Hz

HP	Full-Load Amps @230V	NEMA Frame (See P. 16)	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1	7.7	56HZ	313P150	5K642	\$121.50	\$81.97	33
1½	10.0	56HZ	313P153	5K644	153.00	103.22	41
2	13.0	56HZ	313P156	5K645	184.50	124.48	46

COMPLETE with MAGNETIC STARTER

Stock No.	Each*
7K282	\$132.97
7K283	154.22†
7K284	175.48†

COMPLETE with MANUAL STARTER

Stock No.	Each*
7K285	\$107.81
7K286	129.06†
7K287	156.78†

TEFC, 1800 RPM, 115/230V, 60 Hz

HP	Full-Load Amps @230V	NEMA Frame (See P. 16)	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1	6.8	56HZ	313P152	6K508	\$133.50	\$90.07	41
1½	8.2	56HZ	313P155	6K510	165.00	111.32	46

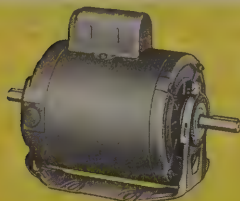
7K385	\$141.07
7K387	162.32†

7K384	\$115.91
7K386	137.16†

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 115V is specified.

STOKER DUTY CAPACITOR-START MOTOR

1/4 HP, 115V, 60 Hz, 1725 RPM. Totally Enclosed. Automatic Reset Thermal Protection



\$45.03



Westinghouse stoker motor is totally-enclosed to keep out coal and ash dust. 1/4 HP, 1725 RPM, 115V, 60 Hz. 3.8 full-load amps, capacitor-start, induction-run type. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. Automatic reset thermal protection. NEMA 56 frame. Double ¾" dia. shafts. Shaft rotation reversible by electrical reconnection. Base to shaft center, 3½". Husky sleeve bearings. Resilient base. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse style No. 317P109. Shpg. wt. 19 lbs.

No. 6K821. Retail \$86.75. Each.....\$45.03

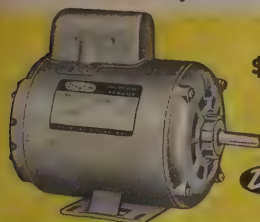
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

Full-Fact Dayton Motor Label Makes Stocking Easier

OVER 800 DAYTON MOTOR TYPES now carry Full-Fact labels similar to the one shown. The label illustrates and identifies the specific motor, and lists all its important electrical and mechanical features clearly, for easy reference by dealer and user. This information aids in proper selection, simplifies stockkeeping and order filling, and helps prevent misapplications and returns to dealers. Aside from their obvious utility, Dayton Full-Fact labels, and the distinctive white Dayton carton, reflect pride in the product, and assure the buyer of quality and the integrity of the maker.



1/2 to 2 HP, 3450 RPM CAPACITOR-START MOTORS



\$34.37

1/2 HP
No. 5K683

Dayton

115/230 & 230V, 60 Hz. For High-Speed Jobs

Built for workshop tools and other high speed applications. Capacitor start type. 3450 RPM, 115/230 and 230V, 60 Hz models. Rigid mounted. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. NEMA 48 frame models have 1/2" dia. x 1 1/2" long shaft with flat, 3" shaft height and mounting holes 4 1/4 x 2 9/16". NEMA 56 frame models have 5/8" dia. x 1 7/8" long shaft with key, 3 1/2" shaft height and mounting holes 4 7/8 x 3". Reversible rotation. Gray. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved.

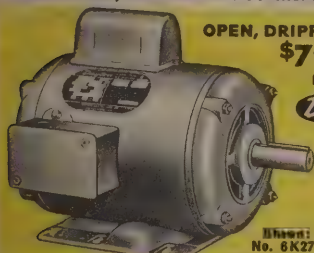
HP	RPM	Volts 60 Hz	Bearings	Thermal Protection	NEMA Frame (See p. 16)	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/2	3450	115/230	Sleeve	—	48	9.8	5K683	\$52.50	\$34.37	18
		3450	Sleeve	Manual	48	9.8	6K361	57.83	37.86	17
3/4	3450	115/230	Sleeve	—	48	11.8	5K684	63.75	41.74	19
		3450	Sleeve	Manual	48	11.8	6K370	69.08	45.22	19
1	3450	115/230	Ball	—	56	15.0	6K232	87.75	57.45	31
		3450	Ball	Manual	56	15.0	6K385	93.08	60.93	30
1 1/2	3450	115/230	Ball	—	56	19.0	6K284*	114.75	75.12	32
		230	Ball	Manual	56	9.5(†)	6K614†	119.63	78.31	32
2	3450	115/230	Ball	—	56	22.0	6K138*	141.75	92.80	36
		230	Ball	Manual	56	12.0(†)	6K652†	146.63	95.99	36

(*) Has side-mounted conduit box.

(†) Full-load amps @ 230V.

56HZ COMBINATION BASE CAPACITOR MOTORS

NEMA 56HZ, 143T and 145T Frame. 1800 RPM, 115/208-230V, 60 Hz. Double-Shielded Ball Bearings

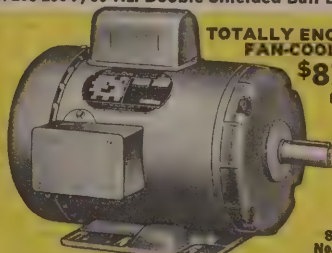


OPEN, DRIPPROOF
\$79.54

1 HP

Dayton

Shown:
No. 6K271



TOTALLY ENCLOSED,
FAN-COOLED

\$87.40

1 HP

Shown:
No. 6K407

Special base design of NEMA 56HZ frame motors has holes and slots to match NEMA 56, 56H, 143T and 145T mounting dimensions. Built for use on general purpose applications—pumps, compressors, blowers, conveyors, etc. 2 HP dripproof and 1 1/2 HP TEFC models are capacitor-start, capacitor-run. Double-shielded ball bearings. 40°C ambient, Class B insulation, con-

tinuous duty. 1.15 service factor, 60°C rise on open dripproof models; 1.0 service factor, 75°C rise on TEFC models. Available with or without manual-reset thermal protection. Rigid base. 7/8" dia. x 2 1/4" long keyed shaft. Reversible rotation. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

DRIPPROOF, 1 TO 2 HP, 1800 RPM, 60 Hz

HP	Volts 60 Hz	Thermal Protection	NEMA Frame (See p. 16)	Shaft Dia.	Full- Load Amps @230V	Stock No.	COMPLETE WITH MAGNETIC STARTER			COMPLETE WITH MANUAL STARTER	
							Stock No.	Each*	Shpg. Wt.	Stock No.	Each*
1	115/208-230	—	56HZ	7/8"	7.5	6K271	\$121.50	\$79.54	32	7K347	\$130.54
	115/208-230	Manual	56HZ	7/8"	7.5	6K424	126.75	82.98	32	7K398	133.98
1 1/2	115/208-230	—	56HZ	7/8"	10.5	6K272	153.00	100.16	38	7K348	151.16†
	115/208-230	Manual	56HZ	7/8"	10.5	6K422	158.25	103.60	39	7K399	154.60†
2	115/208-230	—	56HZ	7/8"	11.0	6K393†	184.50	120.79	42	7K349	171.79†
	115/208-230	Manual	56HZ	7/8"	11.0	6K972†	193.50	126.68	42	7K400	177.68†

TEFC, 1 AND 1 1/2 HP, 1800 RPM, 60 Hz

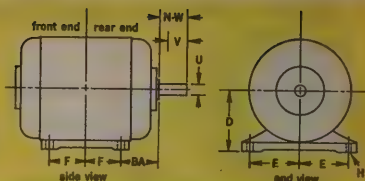
HP	Volts 60 Hz	Thermal Protection	NEMA Frame (See p. 16)	Shaft Dia.	Full- Load Amps @230V	Stock No.	COMPLETE WITH MAGNETIC STARTER			COMPLETE WITH MANUAL STARTER	
							Stock No.	Each*	Shpg. Wt.	Stock No.	Each*
1	115/208-230	—	56HZ	7/8"	6.5	6K407	\$133.50	\$87.40	33	7K380	\$138.40
	115/208-230	Manual	56HZ	7/8"	6.5	6K418	138.75	90.84	34	7K401	141.84
1 1/2	115/208-230	—	56HZ	7/8"	8.2	6K419†	165.00	108.02	41	7K381	159.02†
	115/208-230	Manual	56HZ	7/8"	8.2	6K420†	170.25	111.46	41	7K402	162.46†

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price slightly higher where 115V is specified. (‡) Capacitor-start, capacitor-run.

SEE WARRANTY INFORMATION ON PAGE 684

DIMENSION STANDARDS

Standardized motor dimensions as established by the National Electrical Manufacturers Association (NEMA) are tabulated below and apply to all base-mounted motors listed herein which carry a NEMA frame designation.



NEMA FRAME	D(*)	—All Dimensions in Inches—						U	V(\$) Min.	Key			NEMA FRAME
		2E	2F	BA	H	N-W	Wide			Thick	Long		
42	2 $\frac{5}{8}$	3 $\frac{1}{2}$	1 $\frac{11}{16}$	2 $\frac{1}{8}$	$\frac{5}{16}$ slot	1 $\frac{1}{8}$	$\frac{3}{8}$	—	—	$\frac{3}{4}$ flat	—	42	
48	3	4 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{11}{16}$ slot	1 $\frac{1}{2}$	$\frac{1}{2}$	—	—	$\frac{3}{4}$ flat	—	48	
56	3 $\frac{1}{2}$	4 $\frac{7}{8}$	$\frac{3}{8}$ 3&5(†)	2 $\frac{3}{4}$	$\frac{11}{16}$ slot	1 $\frac{1}{2}$ (†)	$\frac{5}{8}$ (†)	—	$\frac{3}{8}$ (†)	$\frac{3}{8}$ (†)	1 $\frac{3}{8}$ (†)	56	
56H	3 $\frac{1}{2}$	**	**	**	**	2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	56H	
56HZ	3 $\frac{1}{2}$					2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	56HZ	
66	4 $\frac{1}{4}$	5 $\frac{3}{8}$	5	3 $\frac{1}{2}$	$\frac{13}{32}$ slot	2 $\frac{1}{4}$	$\frac{3}{4}$	—	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	66	
143T	3 $\frac{1}{2}$	5 $\frac{1}{4}$	4	2 $\frac{1}{4}$	$\frac{11}{32}$ dia.	2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	143T	
145T	3 $\frac{1}{2}$	5 $\frac{1}{4}$	4	2 $\frac{1}{4}$	$\frac{11}{32}$ dia.	2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	145T	
182			4 $\frac{1}{2}$			2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	182	
184			5 $\frac{1}{8}$	2 $\frac{3}{4}$	$\frac{13}{32}$ dia.	2 $\frac{1}{4}$	$\frac{7}{8}$	2	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{3}{8}$	184	
182T	4 $\frac{1}{4}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	2 $\frac{3}{4}$	$\frac{13}{32}$ dia.	2 $\frac{1}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	1 $\frac{3}{4}$	182T	
184T			5 $\frac{1}{8}$			2 $\frac{1}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	1 $\frac{3}{4}$	184T	
213			5 $\frac{1}{2}$			3	1 $\frac{1}{8}$	2 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	2	213	
215	5 $\frac{1}{4}$	8 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{2}$	$\frac{13}{32}$ dia.	3	1 $\frac{1}{8}$	2 $\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	2	215	
213T			5 $\frac{1}{2}$			3 $\frac{3}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	2 $\frac{3}{8}$	213T	
215T			7 $\frac{1}{8}$			3 $\frac{3}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	2 $\frac{3}{8}$	215T	
254U			8 $\frac{1}{4}$			3 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	$\frac{5}{16}$	$\frac{5}{16}$	2 $\frac{3}{4}$	254U	
256U	6 $\frac{1}{4}$	10	10 $\frac{1}{8}$	4 $\frac{1}{4}$	$\frac{17}{32}$ dia.	3 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{2}$	$\frac{5}{16}$	$\frac{5}{16}$	2 $\frac{3}{4}$	256U	
254T			8 $\frac{1}{4}$			4	1 $\frac{1}{8}$	3 $\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	2 $\frac{3}{4}$	254T	
256T			10			4	1 $\frac{1}{8}$	3 $\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	2 $\frac{3}{4}$	256T	
284U			9 $\frac{1}{2}$			4 $\frac{7}{8}$	1 $\frac{1}{8}$	4 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{3}{4}$	284U	
286U	7	11	11 $\frac{1}{16}$	4 $\frac{3}{4}$	$\frac{17}{32}$ dia.	4 $\frac{7}{8}$	1 $\frac{1}{8}$	4 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{3}{4}$	286U	
284T			9 $\frac{1}{2}$			4 $\frac{7}{8}$	1 $\frac{1}{8}$	4 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{3}{4}$	284T	
286T			11			4 $\frac{7}{8}$	1 $\frac{1}{8}$	4 $\frac{5}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	3 $\frac{3}{4}$	286T	
324U			10 $\frac{1}{2}$			5 $\frac{5}{8}$	1 $\frac{1}{8}$	5 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	4 $\frac{1}{4}$	324U	
326U			13			5 $\frac{5}{8}$	1 $\frac{1}{8}$	5 $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	4 $\frac{1}{4}$	326U	
324T	8	12 $\frac{1}{2}$	10 $\frac{1}{2}$	5 $\frac{1}{4}$	$\frac{21}{32}$ dia.	5 $\frac{1}{4}$	2 $\frac{1}{8}$	5	$\frac{1}{2}$	$\frac{1}{2}$	3 $\frac{7}{8}$	324T	
326T			12			5 $\frac{1}{4}$	2 $\frac{1}{8}$	5	$\frac{1}{2}$	$\frac{1}{2}$	3 $\frac{7}{8}$	326T	
326TS			12			3 $\frac{3}{4}$ (*)	1 $\frac{1}{8}$ (*)	3 $\frac{1}{2}$ (*)	$\frac{1}{2}$	$\frac{1}{2}$	2 (*)	326TS	
364U	9	14	11 $\frac{1}{4}$	5 $\frac{7}{8}$	$\frac{21}{32}$ dia.	6 $\frac{3}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	5	364U	
365U			12 $\frac{1}{4}$			6 $\frac{3}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	5	365U	

(*) Dimension D will never be greater than the above values on rigid mount motors, but it may be less so that shims up to $\frac{1}{32}$ " thick ($\frac{1}{16}$ " on 364U and 365U frames) may be required for coupled or geared machines.

(†) Dayton motors designated 56H have two sets of 2F mounting holes—3" and 5".

(▲) Standard short shaft for direct-drive applications.

(**) Base of Dayton 56HZ frame motors has holes and slots to match NEMA 56, 56H, 143T and 145T mounting dimensions.

(†) Certain NEMA 56Z frame motors have $\frac{1}{2}$ " dia. x $1\frac{1}{2}$ " long shaft with $\frac{3}{64}$ " flat. These exceptions are noted in this catalog.

(§) Dimension "V" is shaft length available for coupling, pinion or pulley hub—this is a minimum value.

NEMA LETTER DESIGNATIONS FOLLOWING FRAME NUMBER

C—Face mount; see below.

H—Has 2F dimension larger than same frame without H suffix.

J—Face mount to fit jet pumps; see below.

K—Has hub for sump pump mounting.

M—Flange mount for oil burner; 5½" rabbet di.

N—Flange mount for oil burner; 6 $\frac{3}{8}$ " rabbet dia.

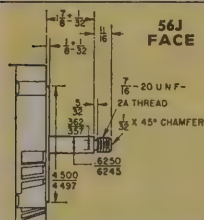
T, U—Integral HP motor dimension standards set by NEMA in 1964 and 1953, respectively.

Y—Non-standard mounting; see mfr's drawing.

Z—Non-standard shaft extension (N-W, U dim.)

For their own identification, manufacturers may

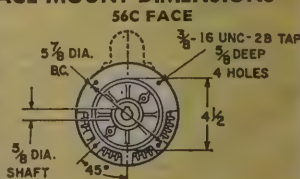
use a letter before the NEMA frame number. This has no reference to mounting dimensions.



NEMA 56J AND 56C FACE MOUNT DIMENSIONS

NEMA 56C and 56J faces differ only in that NEMA 56C face has 5/8" dia. x 1 1/8" long shaft with key, while NEMA 56J flange has a threaded shaft of No. 416 stainless steel, dimensions as shown at left.

Mounting dimensions of the 56J face are exactly the same as the NEMA 56C face shown at right.



ELECTRIC MOTOR TERMINOLOGY

Ambient (Amb)—the temperature of the space around the motor. Most motors are designed to operate in an ambient not over 40°C (104°F). Note: A rating of 40°C Ambient is not the same as a rating of 40°C Rise; see Temp. Rise, below.

Air-Over—motors intended for fan and blower service. Must be located in the air stream to provide motor cooling.

Enclosure (Encl)—The motor's housing. Types:

Dripproof (DP)—ventilation openings in end shields & shell placed so drops of liquid falling within an angle of 15° from vertical will not affect performance. Usually used indoors, in fairly clean locations.

Totally Enclosed (TE)—no ventilation openings in motor housing (but not airtight). Used in locations which are dirty, damp, oily, etc.

Totally Enclosed, Fan-Cooled (TEFC)—Includes an external fan, in a protective shroud, to blow cooling air over the motor.

Totally Enclosed, Non-Ventilated (TENV)—not equipped with an external cooling fan. Depends on convection air for cooling, or on air flow from driven device (air-over).

Explosion-Proof (EX PRF)—a totally enclosed motor designed to withstand an internal explosion of specified gases or vapors, and not allow the internal flame or explosion to escape. See p.81 for explosive atmosphere classifications.

Full-Load Amps (F/L Amps)—line current (amperage) drawn by a motor when operating at rated load and voltage. Shown on motor nameplate. Important for proper wire size selection and motor starter heater selection.

Frame—usually refers to the NEMA system of standardized motor mounting dimensions, which facilitates replacement. See facing page.

Bearings (Brgs)—basic types:

Sleeve (Slv)—preferred where low noise level is important, as on fan and blower motors. Unless otherwise stated, sleeve bearing motors listed herein can be mounted in any position, including shaft-up or shaft-down (all-position mounting).

Ball—used where higher load capacity is required or periodic lubrication is impractical. Two means used to keep out dirt:

Shields—metal rings with close running clearance on one side (single-shielded) or both sides (double-shielded) of bearing.

Seals—similar to shields, except have rubber lips that press against inner race, more effectively excluding dirt, etc.

Hertz (Hz)—frequency, in cycles per second, of AC power; usually 60 Hz in USA, 50 Hz overseas. (Abbreviated Cps or Cy in the past).

Insulation (Ins)—in motors, usually classified by maximum allowable total operating temperatures: Class A-105°C (221°F), Class B-130°C (266°F), Class F-155°C (311°F), Class H-180°C (356°F).

Motor Types—classified by operating characteristics and/or type of power required;

Motors for Single Phase AC Operation:

Induction—most common type. Speed remains relatively constant as load changes. There are several kinds of induction motors:

Shaded pole—low starting torque, low cost. Usually used in direct-drive fans and blowers, and in small gearmotors.

Permanent split capacitor (PSC)—performance and applications similar to shaded pole but more efficient, with lower line current and higher horsepower capabilities.

Split-phase start—induction run (or simply split phase)—moderate starting torque, high breakdown torque. Used on easy-starting equipment, such as belt-driven fans and blowers, grinders, centrifugal pumps, gearmotors, etc.

Capacitor-start, induction-run (or simply, capacitor start or capacitor)—high starting and

break-down torque, medium starting current. Used on hard-starting applications; compressors, positive displ. pumps, farm equip., etc.

Capacitor-start, capacitor-run—performance and applications similar to capacitor-start, induction-run, except have higher efficiency. Generally used in higher single phase HP ratings.

Three Phase—operate on 3-phase power only. High starting and breakdown torque, high efficiency, medium starting current, simple, rugged design, long life. For all types of industrial uses.

Direct Current (DC)—usable only if DC available. Usually used on adjustable-speed applications.

AC/DC (AC series or universal)—operate on AC (60 or 50 Hz) or DC power. High speed, usually 5000 RPM or more. Brush type. Speed drops rapidly as load increases. Useful for drills, saws, etc., where high output and small size are desired and speed characteristic and limited life (primarily of brushes) is acceptable.

Mounting (Mtg)—basic types:

Rigid—motor solidly fastened to equipment through metal base that is bolted or welded to motor shell.

Resilient (Res)—sometimes called rubber or rbr.—motor shell isolated from base by vibration-absorbing material, such as rubber rings on the end shields, to reduce transmission of vibration to the driven equipment.

Face or flange—shaft end has a flat mounting surface, machined to standard dimensions, with holes to allow easy, secure mounting to driven equipment. Commonly used on jet pumps, oil burners and gear reducers.

Stud—motor has bolts extending from front or rear, by which it is mounted. Often used on small, direct drive fans and blowers.

Yoke—tabs or ears are welded to motor shell, to allow bolting to a fan column or bracket. Used on fan-duty motors.

Rotation (Rot)—direction in which shaft rotates: CW=clockwise; CCW=counterclockwise; Rev=reversible, rotation can be changed. Unless stated otherwise, rotation specified in this catalog is as viewed facing shaft end of motor.

Service factor (SF, Svc Fctr) a measure of the reserve margin built into a motor. Motors rated over 1.0 SF have more than normal margin, and are used where unusual conditions such as occasional high or low voltage, momentary overloads, etc. are likely to occur.

Temperature Rise—the amount by which a motor, operating under rated conditions, is hotter than its surroundings. Increasingly, manufacturers are replacing the Rise rating on the motor nameplate with a listing of the Ambient temp. rating, insulation class and service factor.

Thermal Protector—a temperature sensing device built into the motor, that disconnects the motor from its power source if the temperature becomes excessive for any reason. Basic types:

Automatic-Reset (Auto)—after motor cools, protector automatically restores power. Should not be used where unexpected restarting would be hazardous.

Manual-Reset (Man)—an external button must be pushed to restore power to motor. Preferred where unexpected restarting would be hazardous, as on saws, conveyors, compressors, etc.

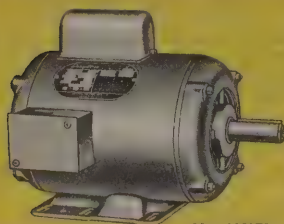
Convertible (Conv)—Factory-delivered as automatic-reset. Field-convertible to manual-reset.

Torque—twist, or turning ability, as applied to a shaft. Measured in foot-pounds (ft-lbs), inch-pounds (in-lbs), ounce-feet (oz-ft) or ounce-inches (oz-in). In a motor, two torque values are important:

Locked rotor torque, or starting torque—the torque produced at initial start.

Breakdown torque—the maximum torque a motor will produce while running, without an abrupt drop in speed and power.

DRIPPROOF T-FRAME CAPACITOR-START MOTORS



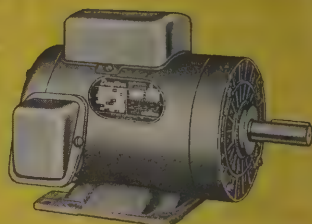
No. 6K271

1 to 10 HP
1800 RPM, 60 Hz
115/230, 115/208-230
& 230V Models
40°C Ambient
Class B Insulation
Continuous Duty

Dayton

\$79.54

1 HP



No. 5K475

Long-life capacitor motors built in accordance with the latest NEMA motor standards. For general-purpose applications—pumps, compressors, blowers, conveyors, machinery, etc. 1 to 3 HP are capacitor-start, induction-run type. 5 to 10 HP are capacitor-start, capacitor-run type. 1800 RPM, 1 and 1½ HP are 115/208, 230V, 60 Hz; 2 and 3 HP are 115/230V, 60 Hz; 5 to 10 HP are

230V, 60 Hz. Rigid base. Pre-lubricated, double-shielded ball bearings for long life. 40°C (104°F) ambient, 1.15 service factor, Class B insulation (60°C rise), continuous duty. Open, dripproof construction. Rotation easily reversed by electrical reconnection. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved.

1 TO 10 HP, 1800 RPM, 60 Hz DRIPPROOF MOTORS

HP	Volts 60 Hz	NEMA Frame (See p. 16)	Shaft Dia.	Full-Load Amps@ 230V	Stock No.	Retail		Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	115/208-230	56HZ	½"	7.5	6K271	\$121.50	\$ 79.54	32	7K347	\$130.54	7K350	\$105.38
1½	115/208-230	56HZ	¾"	10.5	6K272	153.00	100.16	38	7K348	151.16†	7K351	126.00†
2	115/230	182T	1"	13.5	5K953	180.00	144.00	52	7K310	195.00†	7K313	176.30†
3	115/230	184T	1½"	18.6	5K675	241.50	193.20	70	7K294	250.66†	7K297	225.50
5	230	213T	1½"	25.0	5K676#	367.50	294.00	100	7K295	365.67	7K377	340.51
7½	230	215T	1½"	36.0	5K677#	507.00	405.60	124	7K296	519.26	—	—
10	230	215T	1½"	44.0	6K100#	633.00	506.40	144	7K341	691.77	—	—

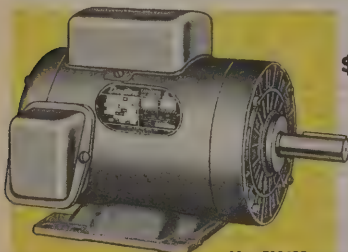
(#) Capacitor-start, capacitor-run type.

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters.

(†) Price is slightly higher where 115V is specified. (‡) Starter available for 230V only.

DRIPPROOF U-FRAME CAPACITOR-START MOTORS

For Heavy-Duty Applications. High Starting Torque. 40°C Rise. Continuous Duty. Ball Bearings



No. 5K482

Dayton

\$126.00

1 HP

Dayton heavy-duty capacitor-start motors are designed and built for dependable, efficient performance and economy. Use on air compressors, machinery, farm applications, pumps, blowers, conveyors and all heavy-duty applications. 40°C ambient, 1.15 service factor, Class A insulation (40°C rise), continuous duty at full load. High starting torque with normal starting current characteristics—capacitor start type. NEMA 182 to 215 frames. Double-shielded ball bearings. Dripproof, cast aluminum end bells. Cast aluminum, perfectly balanced rotor is low pressure cast to assure completely filled slots for smooth, quiet performance. Solid, steel frame. Precision constructed in accordance with NEMA mechanical and electrical standards. Large conduit box for easy wiring. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

1 TO 5 HP, 1800 RPM, 115/230 & 230V, 60 Hz, DRIPPROOF, BALL BEARING MOTORS

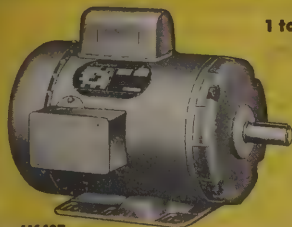
HP	Volts 60 Hz (See p. 16)	NEMA Frame (See p. 16)	Shaft Dia.	Full-Load Amps @230V	Stock No.	Retail		Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	115/230	182	¾"	7.2	5K480	\$157.50	\$126.00	42	7K210	\$177.00	7K253	\$151.84
1½	115/230	184	¾"	11.0	5K481	189.75	151.80	49	7K211	202.80†	7K254	177.64†
2	115/230	213	1"	12.5	5K482	225.00	180.00	58	7K212	231.00†	7K255	212.30†
3	115/230	215	1½"	18.5	5K483	302.25	241.80	86	7K213	299.26†	7K256	274.10†
5	230	215	1½"	24.0	5K484(‡)	459.75	367.80	102	7K274	439.47	7K378	414.31

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (#) Capacitor-start, capacitor-run type.

(†) Price is slightly higher where 115V is specified.

NEMA SHAFT AND MOUNTING DIMENSIONS FOR THESE MOTORS ON PAGE 16

TOTALLY ENCLOSED T-FRAME CAPACITOR MOTORS

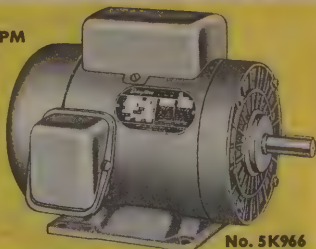


1 to 7½ HP, 1800 or 3600 RPM
Externally Fan-Cooled
40°C Ambient
Class B Insulation
Continuous Duty

Dayton

\$87.40

1 HP



No. 5K966

Dayton totally enclosed, fan-cooled capacitor-start motors designed for operation in dusty, oily, moist, and dirty locations. For general-purpose applications—pumps, air compressors, conveyors, etc. 1 and 2 HP, 1800 RPM models and 3 HP, 3600 RPM model are capacitor-start, induction run. 1½, 3, 5 & 7½ HP, 1800 RPM and

5 HP, 3600 RPM models are capacitor-start, capacitor-run. 40°C (104°F) ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Ball bearings. Reversible rotation. Gray. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

1 TO 7½ HP, 1800 RPM, 60 Hz TOTALLY ENCLOSED

HP	Volts 60 Hz	NEMA Frame (See p. 18)	Full-Load Shaft Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
1	115/208-230	56HZ	7/8"	6K407	\$133.50	\$ 87.40	33
1½	115/208-230	56HZ	7/8"	6K419#	165.00	108.02	41
2	115/230	182T	1 1/8"	5K966	256.50	205.20	57
3	115/230	184T	1 1/8"	5K967#	324.00	259.20	79
5	230	213T	1 1/8"	5K968#	442.50	354.00	106
7½	230	215T	1 1/8"	6K176#	598.50	478.80	136

COMPLETE with MAGNETIC STARTER

Stock No.	Each*
7K380	\$138.40
7K381	159.02†
7K316	256.20†
7K317	316.68†
7K318	425.67
7K345	594.40

COMPLETE with MANUAL STARTER

Stock No.	Each*
7K382	\$113.24
7K383	133.86†
7K321	237.50†
7K322	291.50†
7K374	400.51
—	—

3 TO 7½ HP, 3600 RPM, 60 Hz TOTALLY ENCLOSED

HP	Volts 60 Hz	NEMA Frame (See p. 18)	Full-Load Shaft Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
3	115/230	182T	1 1/8"	6K145	\$297.00	\$237.60	65
5	230	184T	1 1/8"	6K146#	406.50	325.20	88
7½	230	213T	1 1/8"	6K179	523.50	418.80	112

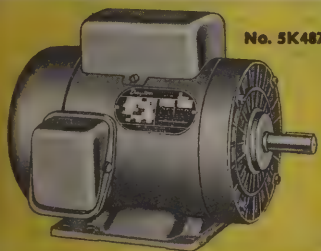
Stock No.	Each*
7K342	\$295.06†
7K344	396.87
7K408	534.40

Stock No.	Each*
7K343	\$269.90†
7K375	371.71
—	—

* Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (#) Capacitor-start, capacitor-run type. (†) Price slightly higher where 115V is specified.

TOTALLY ENCLOSED, U-FRAME CAPACITOR MOTORS

1 to 5 HP, 1800 RPM for Heavy-Duty Applications. High Starting Torque. Ball Bearings



No. 5K487

Dayton

\$184.80

1 HP

Dayton heavy-duty totally enclosed, fan-cooled capacitor-start motors built for dependable, efficient performance in dirty, moist and other adverse atmospheres. Widely used on pumps, laundry equipment, machinery, farm applications, air compressors, conveyors and other heavy-duty applications. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty.

High starting torque with normal starting current characteristics—capacitor start type. NEMA 182 to 215 frames. Pre-lubricated, double-shielded ball bearings. Totally enclosed, cast aluminum end bells. Cast aluminum, perfectly balanced rotor. Solid, steel frame. Large conduit box. Meets NEMA specifications. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

TOTALLY ENCLOSED, FAN-COOLED 1800 RPM, 115/230V, 60 Hz MOTORS

HP	Volts 60 Hz	NEMA Frame (See p. 18)	Full-Load Shaft Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
1	115/230	182	7/8"	5K485	\$231.00	\$184.80	49
1½	115/230	184	7/8"	5K486	270.00	216.00	56
2	115/230	213	1 1/8"	5K487	321.00	256.80	80
3	115/230	215	1 1/8"	5K488	405.00	324.00	100
5	230	215	1 1/8"	5K489#	553.50	442.80	120

COMPLETE with MAGNETIC STARTER

Stock No.	Each*
7K225	\$235.80
7K226	267.00†
7K227	307.80†
7K228	381.46†
7K275	514.47

COMPLETE with MANUAL STARTER

Stock No.	Each*
7K257	\$210.64
7K258	241.84†
7K259	289.10†
7K260	356.30†
7K376	489.31

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 115V is specified.

(#) Capacitor-start, capacitor-run type.

NEMA SHAFT AND MOUNTING DIMENSIONS FOR THESE MOTORS ON PAGE 16

SEE WARRANTY INFORMATION ON PAGE 684

1/3 TO 1½ HP FARM DUTY TEFC CAPACITOR MOTORS

1725 RPM, 115/230V, 60 Hz. Totally Enclosed, Fan-Cooled Construction

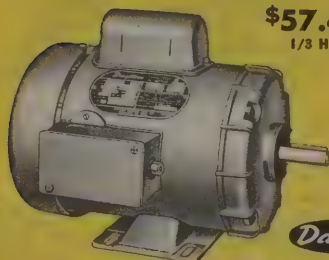
BALL BEARINGS

MANUAL OR AUTOMATIC RESET
THERMAL PROTECTION

SLINGER ON SHAFT END

GASKETED CAPACITOR COVER

GASKETED CONDUIT BOX AND COVER



\$57.45

1/3 HP

Dayton

Dayton TEFC capacitor-start motors designed for farm duty jobs such as barn cleaners, hay hoists, conveyors and like equipment. Also suited for many industrial applications. 1/3 to 1½ HP, 1725 RPM, 115/230V, 60 Hz. Rigid base.

Prelubricated ball bearings. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty.

Manual or automatic-reset thermal protection; automatic-reset models must not be used where unexpected re-starting of the motor could be hazardous. Motors supplied with slinger on shaft, gasketed capacitor cover and conduit box. Recognized by UL for construction under the Motor Component Recognition Program, CSA approved. Rotation reversed by reconnection. Farm machinery green finish. Dayton brand.

1/3 to 1½ HP, TOTALLY ENCLOSED, FAN-COOLED, FARM DUTY, 1725 RPM, 115/230V, 60 Hz

HP	RPM	Volts 60 Hz	Thermal Protection	NEMA Frame	Full-Load Amps @ 115 V	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115/230	Manual	56	9.6	6K710	\$87.75	\$57.45	21
1/2	1725	115/230	Auto	56	9.8	6K592	99.00	64.81	23
	1725	115/230	Manual	56	9.6	6K714	101.25	66.29	22
3/4	1725	115/230	Auto	56	11.2	6K619	119.25	78.07	28
	1725	115/230	Manual	56	11.2	6K719	121.50	79.54	28
1	1725	115/230	Auto	56H	15.0	6K622	130.50	85.43	31
	1725	115/230	Manual	56H	15.0	6K727	132.75	86.91	32
1½	1725	115/230	Manual	56H	18.0	6K740#	164.25	107.53	41

(#) Capacitor-start, capacitor-run type.

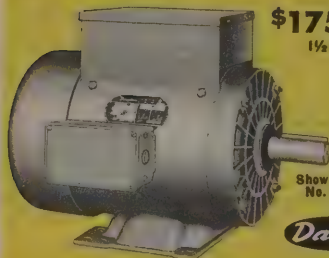
1½ TO 10 HP FARM DUTY TEFC CAPACITOR MOTORS

1800 RPM, 115/230 & 230V, 60 Hz. Ball Bearings. Totally Enclosed, Fan-Cooled Construction

DIE-CAST ALUMINUM ENDBELLS
MANUAL THERMAL PROTECTION

SLINGER ON SHAFT END

GASKETED OVERSIZE CONDUIT BOX



\$175.86

1½ HP

Shown: 5 HP
No. 6K130

Dayton

Totally enclosed, fan-cooled, capacitor-start motors designed by Dayton specifically to meet the requirements of farm jobs such as powering conveyors, barn cleaners, hay hoists, compressors, etc. All except 2 HP are capacitor-start, capacitor-run; 2 HP is capacitor-start, induction-run. 115/230 and 230V, 60 Hz. Rigid base. Prelubricated, double-shielded ball bearings. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Manual reset thermal protection. Motors supplied with slinger on shaft, gasketed capacitor cover and conduit box. Recognized by UL for construction under the Motor Component Recognition Program, CSA approved. Rotation reversed by reconnection. Farm machinery green finish. Dayton brand.

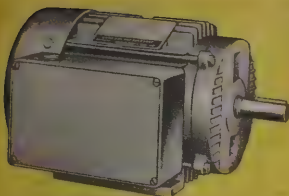
1½ to 10 HP, TOTALLY ENCLOSED, FAN-COOLED, FARM DUTY, 1800 RPM

HP	Volts 60 Hz	Thermal Prot.	NEMA Frame (See p. 18)	Full-Load Amps @ 230V	Stock No.				Complete with Magnetic Starter		Complete with Manual Starter	
						Retail	Each	Shpg. Wt.	Stk. No.	Each*	Stk. No.	Each*
1½	115/230	Manual	145T	9.0	6K311	\$217.09	\$175.86	41	7K388	\$226.86†	7K389	\$201.70†
2	115/230	Manual	182T	11.8	6K313#	262.49	212.63	59	7K390	270.09	7K391	244.95
3	230	Manual	184T	14.5	6K610	326.93	264.83	75	7K392	322.29	7K393	297.13
5	230	Manual	213T	23.0	6K130	442.20	358.21	117	7K394	429.88	7K395	404.72
7½	230	Manual	215T	32.0	6K969	591.13	478.85	136	7K396	592.51	—	—
10	230	Manual	215T	41.0	6K970	714.28	578.61	162	7K397	762.04	—	—

(#) Capacitor-start, induction-run. (†) Price slightly higher where 115V is specified.

(*) Specify voltage to be used when ordering 115/230V motors complete with starters. Start-stop station included with magnetic starters.

GE 1 to 5 HP CAPACITOR-START MOTORS

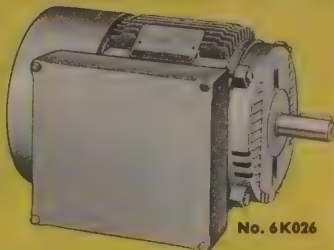


No. 5K997

1800 RPM, 115/230V
40°C Ambient, 60 Hz
1.15 Service Factor
Ball Bearings

\$100.80

1 HP



No. 6K026

General Electric 1 to 3 HP capacitor-start, induction-run and 5 HP capacitor-start, capacitor-run motors are built for long service on fans, blowers, pumps, air compressors, conveyors and other general-purpose applications. Starting currents are NEMA classification, Design L, 1800 RPM, 115/230 and 230V, 60 Hz. Rigid base mounting. Pre-lubricated ball bearings. Scientifically designed bearing housing effectively seals dirt out and grease in. Relubrication holes are tightly sealed with slotted-head pipe

plugs. 40°C ambient, 1.15 service factor. Class B insulation (60°C rise), except 1 HP has Class A insulation (40°C rise). Dripproof construction. Rated for continuous duty. NEMA frames. Reversible rotation. Easy-to-read Perma-numbered leads. Non-wicking neoprene insulation prevents moisture from running up leads. 1 to 3 HP models have ribbed frame and external fan for efficient cooling. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. GE brand.

HP	Volts 60 Hz	NEMA Frame (See p. 16)	Full- Load Amps 230V	GE Model 5KC-	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	115/230	143T	7.3	143AL202	5K995	\$126.00	\$100.80	35	7K323	\$151.80	7K328	\$126.64
1½	115/230	145T	10.4	145AL202	5K997	151.50	121.20	43	7K324	172.20†	7K329	147.04†
2	115/230	182T	12.0	182AL202	5K998	180.00	144.00	61	7K325	195.00†	7K330	169.84†
3	115/230	184T	17.0	184AL202	5K999	241.50	193.20	71	7K326	250.66†	7K331	225.50†
5	230	184T	23.0	184AL292	6K026	367.50	294.00	94	7K346	409.60	7K379	340.51

(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 115V is specified.

MOTOR MOUNTING RAILS

No. 1K025

\$5.48

Dayton

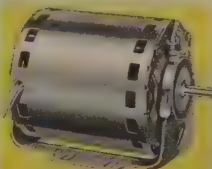


For NEMA 56 to 505S frames. Make motor mounting and proper two-way belt adjustment easier. Slotted ends on all models. Cast-iron construction. Two rails per set. Includes bolts, nuts, washers, adjusting screw.

For NEMA Frames	H	W	L	Stock No.	Each Set	Shpg. Wt.
56 & 66	¾	2¼	10¾	1K025	\$5.48	4½
143T & 145T	¾	2¼	10¾	1K025	5.48	4½
182T to 215T	¾	3½	15½	3K343	6.64	7
182 to 215	¾	3½	15½	3K343	6.64	7
254T to 286T	1	4¾	18¾	1K027	9.27	12
254U to 286U	1	4¾	18¾	1K027	9.27	12
324T & 326TS	1½	4¾	24¾	1K028	13.66	19
324U & 326US	1½	4¾	24¾	1K028	13.66	19
364T to 445TS	1½	4¾	30¾	1K029	18.12	25
404U to 505S	1½	4¾	30¾	1K029	18.12	25

1/12 HP, 1725 RPM MOTOR

Split Phase. NEMA 42 Frame. Sleeve Bearings



\$34.31

For fans, blowers, appliances, pumps, door openers, etc., and wherever a small-size NEMA 42 frame motor is needed. 1725 RPM, 115V, 60/50 Hz, 1425 RPM at 50 Hz. 2.1

full-load amps., split phase type with resilient mounted base. All-angle sleeve bearings. 40°C ambient, 1.4 service factor, Class A insulation (40°C rise), continuous duty. Trouble-free relay in place of centrifugal switch. NEMA 42 frame, ¾" dia. shaft, 1¼" long with flat. Rotation easily reversed. 2¾" shaft height. Mounting holes 3½ x 1¼". Overall length, 7½". 18" leads, ¾" stripped. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. GE model KH29GK88. Shpg. wt. 10 lbs.

No. 5K594, 1/12 HP, 1725 RPM GE Split Phase Motor. Retail \$50.85. Each **\$34.31**

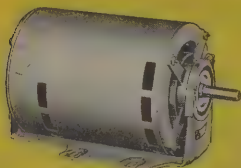
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

SEE WARRANTY INFORMATION ON PAGE 684

GE 2-SPEED SPLIT PHASE FAN MOTORS

1/4, 1/3 & 1/2 HP, 1725/1140 RPM. 115V, 60 Hz. NEMA 48 & 56 Frames. For Fans, Blowers, Coolers, Etc



\$36.43

1/4 HP
No. 6K739



General Electric 2-speed, continuous duty split phase fan motors. 1/4 to 1/2 HP, 1725/1140 RPM 115V, 60 Hz.

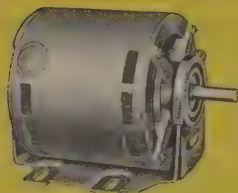
Designed for use on belt driven and direct drive fans, blowers, air coolers and similar applications. Sleeve bearings. Resilient base, open drip proof construction. 40°C ambient, 1.0 service factor, 50°C rise. 1/4 & 1/3 HP have Class A insulation (50°C rise); 1/2 HP has Class B (70°C rise). Automatic reset thermal protection.

NEMA 48 and 56 frames; 1/2" extended mounting studs. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. GE brand

HP at 1725 RPM	HP at 1140 RPM	Volts 60 Hz	NEMA Frame	Shaft Dia.	Shaft Long	Full-Load Amps at 115V	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	1/12	115	48	1/8"	1 1/2"	5.0	KH3YMA0363T	6K739	\$54.00	\$36.43	18
1/3	1/9	115	48	1/8"	1 1/2"	6.4	SKH3QPA0301T	6K514	59.25	39.97	21
1/2	1/6	115	56	5/16"	1 7/8"	8.4	KH3QPA0364T	6K741	75.75	51.11	22

GE 1/3 HP MOTOR FOR SEWING MACHINES

1725 RPM, 115V, 60 Hz. Split Phase Type



\$28.34



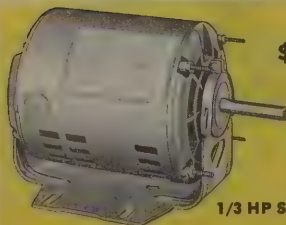
General Electric 1/3 HP split phase motor designed for use on industrial type sewing machine clutches. 1725 RPM, 115V, 60 Hz. Sleeve bearings. Resilient base. Open, drip-proof construction. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. 6.8 full-load amps. NEMA 56Z frame. 1/2" dia. x 1 1/2" long shaft with 5/8" split bushing. Rotation reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. Gray finish. GE model 5XBH01V. Shpg. wt. 20 lbs.

No. 6K947. GE 1/3 HP Sewing Machine Motor. Retail \$42.00. Each..... **\$28.34**

GE 1/4 TO 1 HP SERV-S-LINE® MOTORS

1725 RPM, 115/230V, 60 Hz. Automatic-Reset Thermal Protection

Split Phase and Capacitor-Start Types



\$32.38

1/4 HP



1/3 HP Shown

Designed and built by General Electric for commercial and industrial applications such as fans, blowers, centrifugal pumps and similar jobs requiring moderate starting torque. Service factors meet NEMA standards for general-purpose motors.

1/4 to 1/2 HP, split phase, 3/4 and 1 HP capacitor-start types. 1725 RPM, 115/230V, 60 Hz, 1.35 or 1.25 service factor (60°C rise); also operable on 200V, 60 Hz at 1.0 service factor (70°C rise). Ball bearings, resilient base, open, drip-proof construction. 40°C ambient, Class B insulation, continuous duty. Automatic-reset thermal protection. Extended thru-bolts. Rotation reversed by electrical reconnection. Gray. Recognized by UL for construction under the Motor Component Recognition Program. GE brand.

HP	RPM	Service Factor	NEMA Frame	Shaft Dia.	Shaft Long	Full-Load Amps at 115V	GE Model	Stock No.	Retail	Each	Shpg. Wt.
SPLIT PHASE MOTORS—1725 RPM, 115 / 230V, 60 Hz											
1/4	1725	1.35	48Z	1/8"	2 1/4"	5.2	5KH33FN15T	6K555	\$48.00	\$32.38	15
1/3	1725	1.35	56Z*	1/8"	2 1/4"	6.0	5KH35JN30T	6K560	54.75	36.94	18
1/2	1725	1.25	56Z*	1/8"	2 1/4"	9.0	5KH36MN22T	6K561	74.25	50.09	22

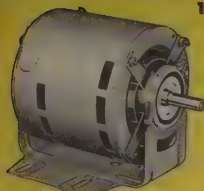
CAPACITOR-START MOTORS—1725 RPM, 115 / 230V, 60 Hz

3/4	1725	1.25	56Z	5/8"	2 3/4"	11.6	5KC39UN7T	6K563	111.75	75.39	30
1	1725	1.25	56Z	5/8"	2 3/4"	14.4	5KC48TG726T	6K767	123.00	82.98	35

(*) Supplied with 5/8" shaft adapter and key.

GE FURNACE AND BELT DRIVE BLOWER MOTORS

1/4 and 1/3 HP, 1725 RPM



56Z
Frame

\$28.34

No. 6K520



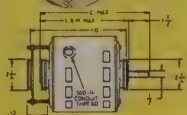
48Y Frame
With
Adapter
Kit



56Z



56Z



56Z

56Z

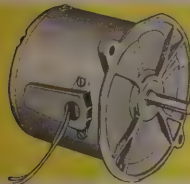
General Electric 1/4 and 1/3 HP split phase motors designed for use on furnace blowers, air coolers, belt driven fans and similar applications. 1725 RPM, 115 Volt, 60 Hz. Sleeve bearings. Resilient base, or resilient ring mounting with length adapter kit included. Open, dripproof construction. 40°C ambient, 1.35 service factor, Class A insulation (40°C rise). Continuous duty. Automatic reset thermal protection. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. 5/8" dia. shaft adapter included with each motor. GE brand.

HP	Mounting	NEMA Frame	Variable Dimensions	YO	Full-Load Amps	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	Adapter*	48Y	8 5/8" 6 3/4"	7 to 8"	5.4	5XBG096	6K520	\$42.00	\$28.34	11
1/4	Resilient	56Z	— —	—	5.4	5KH3RDA0272T	6K515	42.00	28.34	13
1/3	Adapter*	48Y	8 5/8" 7 1/4"	7 1/4 to 8 1/4"	5.8	5XBH090	6K522	48.75	32.89	13
1/3	Resilient	56Z	— —	—	5.8	5KH3SHA0201T	6K518	48.75	32.89	15

(*) Include length adapter and split rings to fit most belt drive blower bases. Base not included.

GE OIL BURNER FLANGE-MOUNT MOTORS

1/8 and 1/6 HP, 1725 RPM, TENV. NEMA 48N Frame



\$24.29

1/8 HP



General Electric split phase motors with NEMA 48N oil burner flange. 1725 RPM, 115 Volt, 60 Hz. Sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. Totally enclosed, non-ventilated construction. Manual-reset thermal protection.

NEMA 48N flange, 1/2" dia. x 1 1/2" long shaft with flat. Rotation easily reversed by electrical reconnection. Leads 20" long. Black finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. GE brand.

HP	RPM	Enclosure	NEMA Frame	Shell Dia.	Length Less Shaft	Full-Load Amps	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	Non-ventilated	48N	5.61"	5.60"	3.1	5KH3JBA0210U	6K532	\$36.00	\$24.29	10
1/6	1725	Non-ventilated	48N	5.61	5.80	3.1	5KH3KDA0211U	6K543	39.00	26.31	11

GE SUMP PUMP MOTOR WITH FLOAT SWITCH

1/3 HP, 1725 RPM, 115V, 60 Hz. Automatic Thermal Protection. 6 Ft. Cord Set



\$28.23

General Electric motor designed for use on sump pumps. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz, 6.6 full-load amps. Sleeve bearings. Open dripproof construction with enclosed top and bell. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Automatic reset thermal protection.

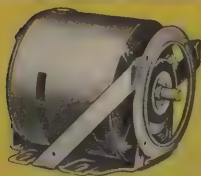
Float type switch and 8 ft. three conductor cord with plug. Nema 48K frame with extended mounting hub for 1 1/2" OD tubing or pipe. 1/2" dia. shaft. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. General Electric model 5XBG114. Shpg. wt. 11 lbs.

No. 6K513. GE 1/3 HP Sump Pump Motor With Float Switch. Retail \$41.85. Each **\$28.23**

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

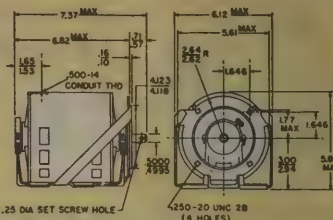
GE HOT-WATER CIRCULATOR REPLACEMENT MOTOR



For Bell & Gossett
Booster Pump

1/8 HP, 1725 RPM
115V, 60 Hz

\$31.07



General Electric 1/8 HP split phase motor, designed both electrically and mechanically to replace the 1/12 HP booster pump motor and bracket assembly used on Bell & Gossett hot water circulators. 1725 RPM, 115V, 60 Hz, 3.0 full-load amps. Resilient mounting with special shaft-end bracket for mounting to pump. All-angle sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous

duty. Open, dripproof construction. Automatic reset thermal protection. NEMA 48Y frame, 1/2" dia. shaft with 1/4" set screw hole. Wired for CW rotation facing shaft, but can be reconnected for opposite rotation. Blue-gray. GE model 5XBFO57. CSA approved. Shpg. wt. 12 lbs.

No. 6K189. Retail \$46.05. Each **\$31.07**

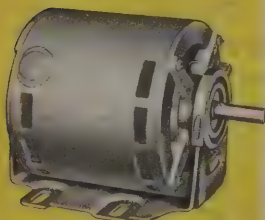
GE 1/4 TO 1/2 HP SPLIT-PHASE MOTORS

1725 RPM, 115V, 60 Hz. Rigid or Resilient Mounted, NEMA 48 and 56 Frames



\$24.69

1/4 HP,
Rigid Base



General Electric split-phase motors for hard-starting jobs—pumps, power tools, fans, blower, etc. 1725 RPM, 115V, 60 Hz. Dripproof construction. 50°C rise, 40°C ambient, 1.0 service factor, continuous duty. All except 1/2 HP, No. 6K512, have Class A insulation; 1/2 HP has Class B. NEMA 48 and 56 frames. Rotation easily reversed. All-angle sleeve bearings. Blue-gray finish. No. 6K512 has automatic-reset thermal protection. NEMA shaft and mounting dimensions on Page 16. CSA approved. GE brand.

RESILIENT BASE MODELS—1725 RPM, 115V, 60 Hz

HP	NEMA Frame	Full-Load Amps	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	48	6.0	5XBG00B	5K525	\$38.10	\$25.70	12
1/3	48	6.8	5XBH00D	5K527	42.00	28.34	14
1/2	48/56	8.4	5K83QMA0468T	6K512*	55.20	37.24	19

RIGID BASE MODELS—1725 RPM, 115V, 60 Hz

HP	NEMA Frame	Full-Load Amps	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	48	6.0	5XBG00A	5K524	\$36.60	\$24.69	12
1/3	48	6.8	5XBH00C	6K185	40.50	27.32	14

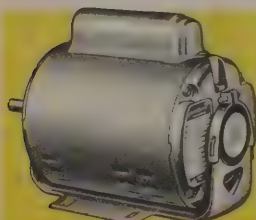
(*) No. 6K512 has automatic-reset thermal protection, Class B insulation, NEMA 48 Frame body mounted on NEMA 56 Frame cradle base, 1/2" shaft with 5/8" split steel bushing.

GE CAPACITOR-START MOTORS

1/4 to 3/4 HP, 1725 RPM, 115 & 115/230V, 60 Hz. 40°C Rise

\$34.91

1/4 HP
Rigid Base



General Electric all-purpose capacitor motors provide high starting torque at low starting current. Built for air compressors, refrigerators, stokers, pumps, tools, appliances, etc. 40°C ambient, Class A insulation (40°C rise), continuous duty.

NEMA 48 and 56 frames. Husky sleeve bearings. Operate in any position. Large built-in terminal board—easy to connect or reverse rotation. Dripproof construction. Both rigid and resilient mounted types have a cradle base which facilitates side or ceiling mounting on the job. Blue-gray finish. CSA approved. GE brand.

RESILIENT CRADLE BASE MODELS—1725 RPM, 115 & 115/230V, 60 Hz

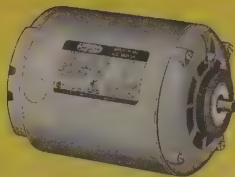
HP	Volts 60 Hz	NEMA Frame (See p. 18)	Full-Load Amps @115V	Service Factor	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	115	48	5.2	1.35	5KC35JN12	4K588	\$53.25	\$35.93	20
1/3	115/230	56	6.6	1.35	5KC36LN3	4K531	69.00	46.55	18
1/2	115/230	56	9.2	1.25	5KC37NN3	6K186	82.50	55.66	25

RIGID CRADLE BASE MODELS—1725 RPM, 115 & 115/230V, 60 Hz

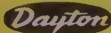
HP	Volts 60 Hz	NEMA Frame	Full-Load Amps	Service Factor	GE Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	115	48	5.2	1.35	5KC35JN11	4K587	\$51.75	\$34.91	16
1/3	115/230	56	6.6	1.35	5KC36LN5	4K530	67.50	45.54	22
1/2	115/230	56	9.2	1.25	5KC37NN5	6K187	81.00	54.65	24
3/4	115/230	56	12.0	1.25	5KC39SG603	6K188	101.25	68.31	28

All motors on page recognized by UL for construction under Motor Component Recognition Program

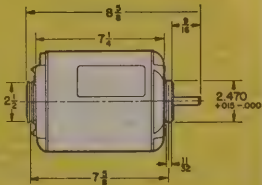
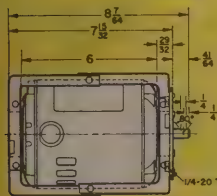
Either Model \$30.15



1/8 HP
No. 6K509



1/6 HP
No. 6K521



Class A insulation (50°C rise), continuous duty. Open, dripproof construction. Automatic reset thermal protection. Rotation easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Red finish. Dayton brand.

HP	RPM	Mounting	Dia.	—Shaft— Long	Type	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	C-Face Bracket	1 1/2"	4 1/4"	Screw hole	2.7	6K509	\$46.05	\$30.15	12
1/6	1725	Hub Rings*	1 1/2"	3 1/4"	Flat	3.5	6K521	46.05	30.15	12

1/12 HP HOT WATER CIRCULATOR PUMP MOTOR



\$24.55

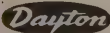
12 HP, split phase, 1725 RPM 115 volt, 60 Hz. Open dripproof construction. Sleeve bearings. 40° ambient, 1.4 service factor. Class A insulation (40°C rise), continuous duty. NEMA 48 frame. Shaft 1½" diameter, 1" long with flat. Rubber ring mount. Automatic reset thermal protection. Full-load amps 2.2. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray enamel finish. Dayton brand. Shpg. wt. 8½ lbs.

No. 6K439. Dayton Hot Water Circulator Pump Motor. Retail \$37.50. Each\$24.55

FRACTIONAL HP MOTOR SHAFT ARBORS



\$1.60



maximum. Threaded shafts with nut and set screws. 3½" long. Left hand thread for clockwise rotation facing shaft.

Shaft Dia. Fit	Thread	Stock No.	Retail	Each	Shpg. Wt.
1/2"	3/8" 20 RH	1X343	\$2.66	\$1.60	7 oz.
5/8	1/2" 20 RH	1X910	2.66	1.60	7 oz.
1/2	3/8" 20 LH	1X354	2.66	1.60	7 oz.
5/8	1/2" 20 LH	1X911	2.66	1.60	7 oz.

Use Fast Grainger Supply Service — Large Stocks Maintained Near You

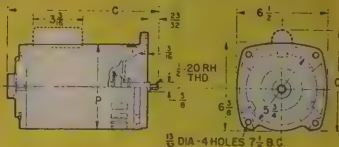
HEAVY-DUTY SQUARE FLANGE PUMP MOTORS



For Replacement on 1/3 to 2 HP Sears, Roebuck (Homart) and Sta-Rite Jet, Circulator, and Swimming Pool Pumps

\$41.74

1/3 HP



HP	1/3	1/2	3/4	1	1 1/2	2
Dim. "C"	10 1/2"	11 1/2"	11 1/2"	11 1/2"	11 1/2"	12 1/2"
Dim. "P"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"

Dayton high service factor, 1/3 to 2 HP, capacitor start, square flange motors built with special features for better performance and dependability on jet pumps, circulator pumps and swimming pool pumps. Electrical and mechanical construction designed for fast replacement by direct mounting on pumps with these brand names: Sears, Roebuck (Homart) and Sta-Rite. 3450 RPM, 115/208-230 V, 60 Hz. Ball bearings at both ends, lubricated with high temperature grease (Chevron BRB-2). Square flange face is made from special corrosion resistant aluminum alloy (#13).

Open/dripproof construction, 40°C ambient, continuous duty. Automatic reset thermal protection. NEMA 56 frame, 304 stainless steel shaft, 5/8 x .401/.411 x 1/2"—20, threaded for pump impeller. CCW rotation facing shaft. Quick-connect terminal board with color-coded leads and blade type terminals for easy voltage change. Slinger on shaft. Capacitor located internally on 3/4 and 1 HP models, externally on 1/3, 1/2, 1 1/2 & 2 HP models. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

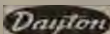
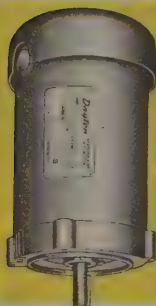
SQUARE FLANGE JET PUMP MOTOR SPECIFICATIONS AND PRICES

HP	Volts 60 Hz	Bearings (Both ends)	°C Rise	Service Factor	Insu- lation Class	—Amps @ 115V—		Stock No.	Retail	Each	Shpg. Wt.
						Full- Load Amps	Service Factor Amps				
1/3	115/208-230	Ball	60	1.9	B	7.0	8.8	6K945*	\$63.75	\$41.74	16
1/2	115/208-230	Ball	60	1.9	B	10.4	12.8	6K946*	69.53	45.52	20
3/4	115/208-230	Ball	40	1.65	A	12.8	15.6	6K398	78.00	51.06	26
1	115/208-230	Ball	40	1.65	A	14.4	18.8	6K421	90.15	59.02	24
1 1/2	115/208-230	Ball	40	1.47	A	18	24	6K494*	123.45	80.82	34
2	115/208-230	Ball	40	1.30	A	22	26.8	6K495*	153.75	100.66	35

(*) Capacitor mounted externally.

JET PUMP BALL BEARING CAPACITOR MOTORS

1/3 to 1 HP, 3450 RPM 115/208-230V. NEMA 56C or 56J Mounting Face. Thermal Protection 40°C Rise, Continuous Duty. Threaded Stainless Steel and Regular Keyed Shafts



\$36.38

No. 5K955

Designed by Dayton for use on jet pump water systems, centrifugal pumps and other high-speed applications requiring NEMA mounting face. Flanged end shield is cast from 360 marine alloy to resist corrosion. 1/3 to 1 HP, capacitor type, 3450 RPM, 115/208-230V, 60 Hz. Sealed/shielded ball bearings on both ends, with seals to inside of motor for protection. Shaft end bearing locked in endshield for maximum thrust capacity. 40°C ambient, Class A insulation (40°C rise), continuous duty. Motors are open, dripproof in horizontal position and in vertical position when canopy is on endbell. Automatic reset thermal protection.

Mylar insulated winding slots with stator dipped in a polyester-modified phenolic thermosetting insulating varnish that provides excellent heating and ageing properties with good moisture resistance. Supplied with snap-on canopy for easy access to terminal board for voltage change (or reversing rotation on keyed shaft models).

NEMA 56C models have 5/8" dia. x 1 1/8" long keyed shaft made from free-machining steel.

NEMA 56J models have threaded shaft of No. 416 stainless steel, 5/8" dia. x 2 3/8" long. Threaded part is 1 1/8" long with 7/16-20 UNF-2A thread, CCW rotation only. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

3450 RPM JET PUMP MOTORS

NEMA 56C MODELS REGULAR, KEYED SHAFT

NEMA 56J MODELS THREADED, STAINLESS STEEL SHAFT

HP	— Bearing — Switch End Shaft End	Service Factor	Full- Load Amps @ 115V	Rotation Easily Reversed			CCW Rotation Facing Shaft			Shpg. Wt.
				Stock No.	Retail	Each	Stock No.	Retail	Each	
1/3	Ball	Ball	1.85	5K955	\$55.58	\$36.38	5K956	\$57.83	\$37.86	17
1/2	Ball	Ball	1.65	5K657	59.70	39.08	5K660	61.95	40.56	21
3/4	Ball	Ball	1.50	5K658	70.05	45.86	5K661	72.30	47.33	22
1	Ball	Ball	1.40	5K659	78.75	51.56	5K662	81.00	53.03	24

JET PUMP CAPACITOR-START MOTORS

1/3 to 2 HP, 3450 RPM, NEMA 56C and 56J Face Models Available
Threaded and Regular Shafts, Automatic Reset Thermal Protection



Dayton

\$32.46

1/3 HP, 56C

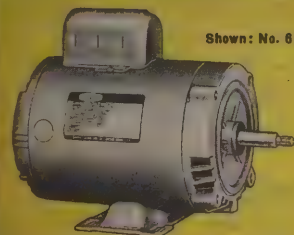
Designed for superior service on jet pump water systems and many other general-purpose applications that require a high-speed, moderate starting torque, and NEMA face mount motor. 1/3 to 2 HP, 3450 RPM. 115/208-230V, 60 Hz except 1/3 HP model is 115V, 60 Hz. Aluminum mounting face is cast from corrosion-resistant 360 marine alloy. Automatic reset thermal protection. Shielded ball bearings locked in on shaft end. Sleeve or ball bearing on switch end (see table below). 40°C ambient, continuous duty. 1/3 thru 1 HP motors have Class B insulation (60°C rise); 1½ and 2 HP models have Class A insulation (40°C rise). NEMA 56C models have 5/8" dia. x 1 1/8" shaft with key; rotation easily reversed. NEMA 56J models have threaded shaft of No. 303 stainless steel, 5/8" dia. x 2 3/4". Threaded portion is 1 1/8" long with 7/16"-20 UNF-2A thread. Threaded shaft models are CCW rotation only. 1/3 thru 1 HP models. Dripproof when used in vertical or horizontal position—protective canopy on endbell. External capacitor on all models. Recognized by UL for construction under Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

NEMA Face Dimensions For These Motors Shown on Page 16

3450 RPM JET PUMP MOTORS					Full-Load Amps @115V	NEMA 56C MODELS REGULAR, KEYED SHAFT Rotation Easily Reversed			NEMA 56J MODELS THREADED, S/S SHAFT CCW Rotation Facing Shaft			Shpg. Wt.
HP	Volts 60 Hz	Bearing — Switch End	Ser-vice End	Fctr.		Stock No.	Retail	Each	Stock No.	Retail	Each	
1/3	115	Sleeve	Ball	1.75	7.0	6K571	\$49.58	\$32.46	6K695	\$51.83	\$33.93	15
1/2	115/208-230	Ball	Ball	1.60	7.8	6K573	59.70	39.08	—	—	—	17
1/2	115/208-230	Sleeve	Ball	1.60	7.8	6K575	56.70	37.12	6K704	58.95	38.59	17
3/4	115/208-230	Sleeve	Ball	1.50	11.2	6K635	67.05	43.90	6K706	69.30	45.37	20
1	115/208-230	Sleeve	Ball	1.40	14.4	6K690	75.75	49.59	6K709	78.00	51.06	23
1 1/2	115/208-230	Ball	Ball	1.30	20.0	5K469	109.88	71.93	5K475	115.13	75.37	28
2	115/208-230	Ball	Ball	1.25	21.0	5K470	137.10	89.75	5K476	142.35	93.19	34

BASE-MOUNTED JET PUMP MOTORS

1/3 to 1½ HP, 3450 RPM, 60 Hz*, Split Phase, Capacitor and 3-Phase Types. NEMA 56J Face, Rigid Base
Threaded Shafts. Automatic Reset Thermal Protection on Split Phase and Capacitor Models



Shown: No. 6K580

Dayton

\$34.76

No. 6K578

Designed for use on jet pump water systems, centrifugal pumps and other high-speed applications that require NEMA 56J face and rigid base mounting. Threaded shaft is of No. 303 stainless steel, 5/8" dia. x 2 3/4" long. Threaded part 1 1/8" long with 7/16"-20 UNF 2A R.H. thread. Open drip-proof construction. 40°C ambient, continuous-duty. Class B insulation on all models except those marked (†), which have Class A. Split phase and capacitor models have built-in automatic reset thermal protection. Shielded ball bearings on both ends. Split phase and capacitor models are wired for CCW rotation facing shaft and are non-reversible. 3-Phase models must be wired in the field for CCW rotation facing shaft. Base mounting holes are 4 1/4" x 3". Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

HP	Motor Type	RPM	Volts 60 Hz	°C Rise	Service Factor	Thermal Protection	Shaft Height	Low Volt Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	Split Phase	3450	115	60°	1.75	Auto	3 1/8"	7.0	6K578	\$53.10	\$34.76	15
1/2	Capacitor	3450	115/208-230	60°	1.60	Auto	3 1/8"	7.8	6K580	63.45	41.54	17
3/4	Capacitor	3450	115/208-230	60°	1.50	Auto	3 1/8"	11.2	6K581	73.80	48.31	21
3/4	3-Phase	3450	208-220/440*	60°	1.50	—	3 1/8"	3.4	3N088†	75.00	49.10	22
1	Capacitor	3450	115/208-230	60°	1.40	Auto	3 1/8"	14.4	6K582	82.50	54.01	23
1 1/2	Capacitor	3450	115/208-230	50°	1.00	Auto	3 1/8"	17.6	6K516†	116.63	76.35	29
1 1/2	3-Phase	3450	208-220/440*	40°	1.30	—	3 1/8"	4.4	3N090†	115.50	75.61	28

(*) 3-Phase motors also operable on 50 Hz, 220/440V; 50°C rise, continuous duty, at 5/6 of the 60 Hz speed.

(†) Class A insulation, all others Class B.

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

SWIM POOL FILTER & JET PUMP MOTORS

Cast-Iron Face, Ball Bearings, Automatic Reset Thermal Protection
1/2 to 2 HP, 3450 RPM, Capacitor, No. 304 Bearing on Shaft End



Dayton
\$43.01

1/2 HP
No. 6K247

Built by Dayton for dependable service on swimming pool filter systems, jet pumps, centrifugal pumps, and similar applications that require a high-speed, moderate starting torque and NEMA face motor. Cast-iron face resists corrosion and provides maximum protection against alkaline or chlorinated water. Double sealed No. 304 ball bearing locked in shaft end for maximum thrust capacity; shielded ball bearing in switch end. 1/2 to 2 HP, 3450 RPM, 115/208-230V, 60 Hz. Automatic reset thermal protection. 40°C ambient, Class A insulation (40°C rise), continuous duty. NEMA 56C face motors have 5/8" dia. x 1 1/8" shaft with keyway, rotation easily reversed. NEMA 56J face motors have threaded shaft of No. 303 stainless steel, 5/8" diameter x 2 3/8". Threaded portion is 1 1/8" long with 7/16"-20 UNF-2A thread. Threaded shaft models are CCW rotation only. Dripproof when used in vertical or horizontal position, protective canopy on endbell. Hole for grounding screw provided in terminal box. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

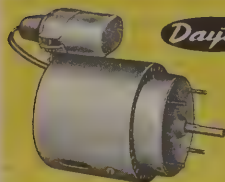
NEMA Face Dimensions For These Motors Shown on Page 16

CAST-IRON PUMP MOTORS					NEMA 56C MODELS			NEMA 56J MODELS			Shpg. Wt.
HP	Bearing — Switch End	Shaft End	Ser. Full-Load vice Fctr.	Amps @115V	Stock No.	Regular Retail	Keyed Shaft Easily Reversed Each	Stock No.	Threaded, S/S Shaft CCW Rotation Facing Shaft Retail	Each	
1/2	Ball	Ball	1.60	8.7	6K247	\$65.70	\$43.01	6K250	\$67.95	\$44.48	21
3/4	Ball	Ball	1.50	10.4	6K248	74.40	48.71	6K255	76.65	50.18	25
1	Ball	Ball	1.40	14.4	6K249	85.58	56.02	6K256	87.83	57.50	28
1 1/2	Ball	Ball	1.30	19.0	6K266*	114.08	74.68	6K267*	119.33	78.12	36
2	Ball	Ball	1.25	21.0	6K336*	144.38	94.52	6K337*	149.63	97.95	44

(*) Capacitor mounted externally.

1/8 HP PERMANENT SPLIT CAPACITOR PUMP MOTOR

3000 RPM, 115V, TEFC, Reversible. Dayton Brand



Dayton

\$18.51
Lots 6

Totally enclosed, fan-cooled, permanent split capacitor pump motor for use on recirculating pumps, vending machines, beverage dispensers, etching machines, and many other applications which need a motor that operates in dusty, dirty and corrosive atmospheres. 115V, 60 Hz, continuous duty. Four mounting studs 2" OC. All-angle sleeve bearings. 5/16" dia. x 1 3/8" long shaft with flat. Body dia. 4"; overall height with capacitor 5 3/8"; length less shaft 5 1/4"; overall length 6 3/8". 1.8 full-load amps. Wired for CW rotation facing shaft. Rotation easily reversed by electrical reconnection. Capacitor and mounting bracket included. 18/2 leads, 12" long. Gray finish. Dayton brand. Shpg. wt. 6 lbs.

No. 3M292. Retail \$29.97. Each \$19.94; lots 6.....\$18.51

HIGH PRESSURE SHALLOW WELL SYSTEM

\$113.52

No. 1P850
Lots 3

TEEL



- For Year-around or Summer Homes, Trailers, Resort Cabins
- Precharged 2 Gal. Well-x-trol® Tank for Less Frequent Starts.
- Draw Capacity 1.0 Gallon @ 20-40 PSI

Compact and quiet operating shallow well pump is ideal where space is at a premium. Designed for use with driven well points, dug wells, drilled wells or cisterns to depths of 25 feet. Completely assembled, ready to install in year-around or summer homes, trailers, resort cabins, etc. May also be used as booster pump to augment low city water pressure. 1 1/4" inlet, 3/4" discharge. Maximum suction lift 25 feet. Powered by a Dayton 1/3 HP, 115V, 60 Hz capacitor electric motor. Pressure switch set for 20-40 PSI, adjustable up to 40-60 PSI. 24 L x 11 W x 13 3/4" H.

PERFORMANCE—Gallons Per Hour at Depth to Water

PSI	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
20	410	370	325	270	210
40	370	350	310	260	200
60	210	190	170	160	140

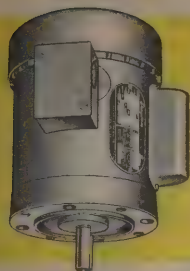
SHALLOW WELL SYSTEM. No. 1P850. Shpg. wt. 51 lbs. Retail \$199.15. Each \$119.49; lots 3.....\$113.52

PUMP AND MOTOR ONLY, less tank & fittings. No. 1P849. Shpg. wt. 44 lbs. Retail \$159.75. Each \$95.85; lots 3.....\$91.06

Use Fast Grainger Supply Service — Large Stocks Maintained Near You
You Are Served by Experienced Men and Women Who Know Your Needs

TEFC C-FACE DAYTON MOTORS

1/3 to 2 HP, 3450 RPM, Capacitor-Start and 3-Phase



Dayton
\$43.45

1/3 HP 3-phase motor types, 60 Hz. Double-shielded, pre-lubricated ball bearings on both ends. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. Automatic reset thermal protection on capacitor-start motors. NEMA 56C face, 5/8" dia. x 1 1/8" long keyed shaft. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

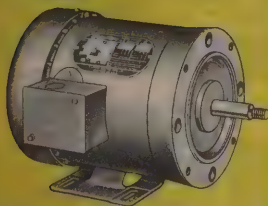
HP	Motor Type	RPM	Volts 60 Hz	Thermal Protection	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	Capacitor	3450	115/208-230	Automatic	7.6@115V	6K181	\$66.38	\$43.45	19
1/2	Capacitor	3450	115/208-230	Automatic	8.0@115V	6K182	70.88	46.40	21
1	Capacitor	3450	115/208-230	Automatic	12.0@115V	6K197	88.13	57.69	27
1	3-Phase	3450	208-220/440	—	3.2@208V	3N237	94.50	61.87	22
2	3-Phase	3450	208-220/440	—	5.4@208V	3N238	136.50	89.36	32

ENCLOSED BASE-MOUNTED JET PUMP MOTORS

3/4 to 1 1/2 HP, 3-Phase, 3450 RPM, 208-220/440V, 60 Hz

\$54.99
3/4 HP

Dayton

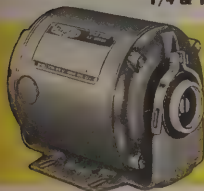


Totally enclosed, fan-cooled 3-phase motors designed to power jet pump water systems, centrifugal pumps and other high-speed applications that require NEMA 56J face motor with rigid base mounting. Built to operate in dusty, dirty, oily and corrosive atmospheres. 3/4 to 1 1/2 HP, 208-220/440V, 60 Hz. Double-shielded, pre-lubricated ball bearings on both ends. 40°C ambient, 1.0 service factor. Class A insulation (55°C rise), continuous duty. NEMA 56J face and NEMA 56 frame rigid base. Threaded shaft is No. 416 stainless steel, 5/8" dia. x 2 3/4" long, threaded portion is 11/16" long with 7/16"-20 UNF 2A thread. Must be wired in the field for CCW rotation facing shaft. Base mounting holes, 4 1/4 x 3". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

HP	RPM	Full-Load Amps @220V	Stock No.	Retail	Each	Shpg. Wt.
3/4	3450	2.5	3N234	\$84.00	\$54.99	22
1	3450	3.2	3N235	103.50	67.76	23
1 1/2	3450	4.4	3N236	124.50	81.51	29

CLOSE-COUPLED CARBONATOR PUMP MOTORS

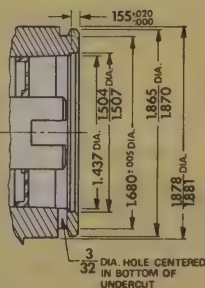
1/4 & 1/3 HP, 1725 RPM, 115V. Automatic Thermal Protection



Dayton
\$29.85

1/4 HP Specially designed split phase motors built for use on carbonator pumps, utility liquid transfer pumps and similar close-coupled pump applications. Machined-extended hub and slotted 5/8" dia. shaft, built to NEMA standards for carbonator pumps, such as Tuthill, Procon, etc. 1725 RPM, 115V, 60 Hz. 5.0 full-load amps. Resilient mount. Sleeve bearings. 40°C ambient, 1.0 service factor.

Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. Automatic reset thermal protection. NEMA 48 frame. 3" shaft height. Base mounting holes 4 1/4 x 2 3/4". Shaft rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.



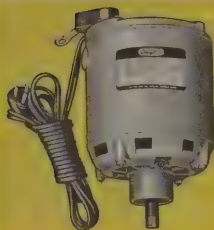
HP	RPM	Volts 60 Hz	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	5.0	6K160	\$45.60	\$29.85	14
1/3	1725	115	6.0	5K887	49.50	32.41	15

NEMA SHAFT AND MOUNTING DIMENSIONS FOR THESE MOTORS ON PAGE 16

SEE WARRANTY INFORMATION ON PAGE 684

SUMP PUMP MOTORS WITH FLOAT SWITCH

1/3 HP, 1725 RPM, 115V, 60 Hz, 8 ft. Cord & Plug



Dayton
\$25.92
 No. 6K226

Designed to give top performance on sump pumps and cellar drainers. Float type switch and 8 ft., 3 conductor cord with plug, mounted on motor. 1/3 HP, 1725 RPM, 115V, 60 Hz, 5.7 full-load amps. Extended hub, to fit 1½" OD tubing or pipe. Sleeve bearings. 40°C ambient, 1.0 service factor, class B insulation (70°C rise), continuous duty. Open dripproof construction with motor shell and end bell opposite shaft end enclosed for added protection. NEMA 48K frame, ½" dia. x 1 11/16" long shaft with flat. Wired for CCW rotation facing shaft; rotation easily reversed by electrical reconnection. CSA approved. Blue finish. Dayton brand.

HP	Thermal Protection	Stock No.	Retail	Each	Shpg. Wt.
1/3	—	6K226	\$39.60	\$25.92	13
1/3	Automatic	6K287	41.85	27.40	13

TOTALLY ENCLOSED SUMP PUMP MOTOR

1/3 HP, 1725 RPM, 115V, 60 Hz, Ball Bearings. Thermal Protection



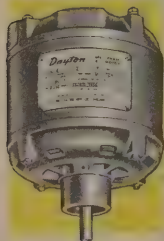
Dayton
\$45.17
 1/3 HP

Heavy-duty totally-enclosed, fan-cooled split phase motor built for use on sump pumps and cellar drainers. Same motor as Teel heavy-duty sump pumps Nos. 3P544 and 3P545. 1725 RPM, 115V, 60 Hz. Double-shielded ball bearings on both ends. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Automatic reset thermal protection. Extended hub for 1½" OD tubing or pipe. ½" dia. x 2" long shaft with flat. CCW rotation facing shaft, non-reversible. 4½" long leads. CSA approved. Gray finish. Dayton brand.

HP	RPM	Volts 60 Hz	Thermal Protection	Shaft Dia.	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115	Automatic	½"	6.4	5K697	\$69.00	\$45.17	17

1/3 HP SUMP PUMP MOTOR

Heavy-Duty, 1725 RPM, 115V. Nema 56K Frame



\$22.00 **Dayton**
 No. 5K158

Built for heavy-duty service. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz, 6.0 full load amps. Sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. NEMA 56K frame, extended hub for 1½" OD tubing or pipe. ½" dia. shaft. CCW rotation facing shaft. Rotation easily reversed by electrical reconnection. Balanced die-cast rotor. Baked varnish impregnated windings. Two extended thru-bolts on end opposite shaft for (optional) dripproof cover. CSA approved. Gray finish. Dayton brand. Shpg. wt. 13 lbs.

HP	Volts	Thermal Protection	Stock No.	Retail	Each
1/3	115	—	5K158	\$33.60	\$22.00
1/3	115	Automatic	5K343	35.85	23.47

1/3 HP SUMP PUMP MOTORS

1725 RPM, 115V, 60 Hz. Nema 48K Frame



\$24.19 **W**
 No. 5K567

Especially built for sump pumps. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz 5.6 full-load amps. Sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Dripproof, with enclosed top end bell. NEMA 48K frame with mounting hub for 1½" OD tubing or pipe. ½" dia. shaft. Rotation easily reversed. CSA approved. Gray finish. Westinghouse brand. Shpg. wt. 12 lbs.

HP	Thermal Protection	Westinghouse Style No.	Stock No.	Retail	Each
1/3	—	316P226	5K567	\$35.85	\$24.19
1/3	Auto	316P200	5K656	38.33	25.86

DRIPPROOF COVER FOR ABOVE



Protects No. 5K158 & 5K343 motors from dirt, moisture, etc. 6¾" dia. Secures to motor top with use of existing motor thru-bolts. Switch cut-away. Steel, red enamel finish. Wt. 8 oz. No. 2X925. Retail \$2.40. Each \$1.24; lots 12, \$1.04

UNPAINTED DRIPPROOF COVERS are available to OEM machine users. Inquiries should specify Stock No. 2X920.

FUSE HOLDER FOR MOTORS



84c For protecting 1/6 to 3/4 HP motors from overload
 Lots 10

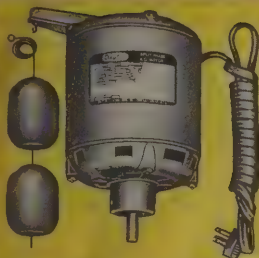
burnout—with proper Fustat. Installs easily in ½" knockout in motor conduit box. Has threaded extension and lock nut, two 6" leads and nylon holder. Proper Fustat available locally.

No. 2X637. Retail \$1.40. Each 91c; lots 10.....84c

All motors on page recognized by UL for construction under Motor Component Recognition Program.

SUMP PUMP MOTOR WITH WEIGHT SWITCH

1/3 HP, 1725 RPM, 115V, 60 Hz. Automatic Thermal Protection
Complete With Weights, 8 Ft. Cord Set



Dayton

\$28.63

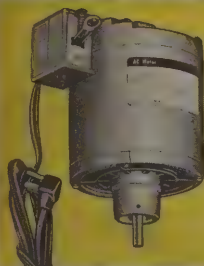
Built for use on sump pumps and cellar drainers. Weight type switch and 8 ft., 3-conductor cord set mounted on motor. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz, 5.7 full-load amps. Sump pump hub for mounting on 1 1/4" OD column. Sleeve bearings, 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Open, drip-proof construction, with motor shell and top end shield enclosed. Automatic reset thermal protection. NEMA 48K frame. 1/2" dia. x 1 1/8" long shaft with flat. Rotation easily reversed by electrical reconnection. Weights and steel cord for switch supplied with motor. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Blue finish. Dayton brand. Shpg. wt. 14 lbs.

No. 6K713. Retail \$43.73. Each.....**\$28.63**

SUMP PUMP MOTOR WITH CONVERTIBLE SWITCH

Designed For Use on Either Weight or Float Type Pumps

1/3 HP, 1725 RPM, 115V, 60 Hz. Westinghouse Brand



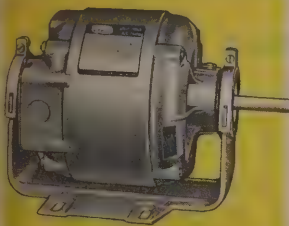
\$30.16

Built for use on both weight and float type sump pumps. Motor is supplied with Cutler-Hammer convertible switch, which can be changed from weight to float type operation by simply removing a spring. 8 ft., 3-conductor cord set mounted on motor. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz, 5.3 full-load amps. Sump pump hub for mounting on 1 1/4" OD column. Sleeve bearings, 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Open, drip-proof type, with enclosed top end shield. Automatic-reset thermal protection. NEMA 48K frame. 1/2 x 1 1/8" shaft with flat. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse style no. 316P698. Shpg. wt. 11 lbs.

No. 6K747. Retail \$44.70. Each.....**\$30.16**

1/3 and 1/2 HP ECONOMY SPLIT PHASE MOTORS

1725 RPM, 115V, 60 Hz. Moderate Torque. NEMA 56 Frame. Rigid & Resilient Mount Models



Dayton

\$23.96

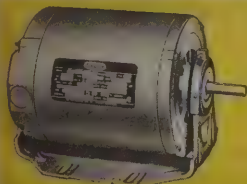
No. 5K533

Economical, split phase motors for fans, air-coolers, tools, appliances, etc. Moderate starting and running torque. 115V, 60 Hz, rigid and resilient mount. Sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. NEMA 56 frame. 1/2" dia. x 1 1/8" long shaft with flat. Rotation easily reversed. 3 1/2" shaft height, mounting holes 4 1/4 x 3". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

HP	RPM	Volts	Mounting	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	115	Rigid	6.0	5K533	\$36.60	\$23.96	13
1/3	1725	115	Resilient	6.0	5K534	38.10	24.94	14
1/2	1725	115	Resilient	7.4	4K913	48.75	31.92	17

1/4 HP BALL BEARING SPLIT PHASE MOTOR

1725 RPM, 115V, 60 Hz. Sealed Ball Bearings. For Tools and Belted Fans

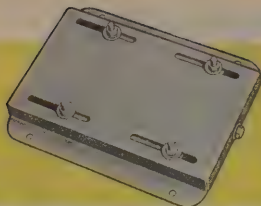


Dayton

\$28.87

1/4 HP, ball-bearing split-phase motor for attic fans, conveyors, tools, etc. 1725 RPM, 115V, 60 Hz. Sealed ball bearings. High starting and running torque. 5.3 full-load amps. NEMA 56Z frame. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. 1/2" shaft. 3 1/2" shaft height. Rotation easily reversed by electrical reconnection. Resilient mounted. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand. Shpg. wt. 13 lbs.

No. 4K731. 1/4 HP, Ball Bearing Split Phase Motor. Retail \$44.10. Each.....**\$28.87**



ADJUSTABLE STEEL MOTOR BASES

\$8.71
No. 3M276

Dayton

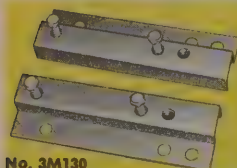
In Sizes to Fit NEMA 56 to 215T Frames
Simplify Mounting, Belt Tension Adjustment

One-piece steel mounting bases, in sizes for NEMA 56 to 215T frame motors. Have single adjusting bolt with push-pull feature that facilitates adjustment of belt tension, both when installing motor and during later maintenance checks. Motor mounting bolts included. Gray finish. Dayton brand.

For NEMA Frame	High	—Dimensions— Wide	Long	Bolt Size	Stock No.	Retail	Each	Shpg. Wt.
56	1 1/8"	6 1/2"	10 5/8"	3/4"	3M276	\$13.07	\$8.71	3
143T	1 1/8"	7 1/2"	10 1/2"	3/4"	3M277	14.84	9.89	5
145T	1 1/8"	8 1/2"	10 1/2"	3/4"	3M278	14.96	9.97	5
182 & 182T	1 1/2"	9 1/2"	12 3/4"	3/4"	3M279	18.36	12.24	9
184 & 184T	1 1/2"	10 1/2"	12 3/4"	3/4"	3M280	19.16	12.77	10
213 & 213T	1 3/4"	11	15	3/4"	3M281	23.48	15.65	14
215 & 215T	1 3/4"	12 1/2"	15	3/4"	3M282	25.46	16.97	15

ADAPT-O-MOUNTS FOR 143T TO 286T NEMA FRAMES

Converts NEMA T-Frame Motors To NEMA U-Frame Mounting



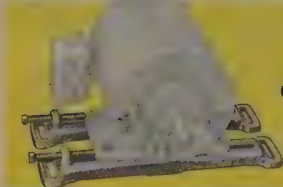
No. 3M130

\$6.68 Provides a simple, easy, inexpensive method of adapting 143T thru 286T NEMA frame motors to 182 thru 326U NEMA mounting dimensions. These adaptor base sets mount the motor so that the axial center lines will be identical and the end of the shaft extensions common. Adapt-O-Mounts will accommodate adjustable or stationary applications. Mounts are furnished with one coat of corrosion-resistant gray primer and all necessary cadmium plated bolts for making transitions. Motor mounting holes have nuts welded on base for ease of installation. Made by Overly-Hautz Co.

CONVERTS		Adapter Dimensions			Stock No.	Retail	Each Pair	Shpg. Wt.
From NEMA Frames	To NEMA Frames	Height	Width	Length				
143T or 145T	182 or 184	1"	2 1/2"	7 1/2"	3M130	\$10.02	\$6.68	2 1/4
182T or 184T	213 or 215	3/4"	1 1/2"	9 1/2"	3M131	15.60	10.40	3
213T or 215T	254U or 256U	1"	2 1/2"	13	3M132	16.25	10.83	4
254T or 256T	284U or 286U	3/4"	2 1/2"	14 1/2"	3M367	21.26	14.17	6
284T or 286T	324U or 326U	1"	3"	16	3M368	25.36	10.50*	10

(*) While stocks last.

CAST IRON MOTOR MOUNTING RAILS



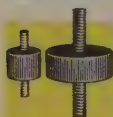
For NEMA
56 to 505S
Frames

Dayton

\$5.48
No. 1K025

Slotted ends on all models. Husky cast-iron construction. Two rails per set. Includes bolts, nuts, washers, adjusting screw. Black finish.

For NEMA Frames	H	W	L	Stock No.	Each Pair	Shpg. Wt.
56 & 66	3/4"	2 1/4"	10 1/2"	1K025	\$5.48	4 1/2
143T & 145T	3/4"	2 1/4"	10 1/2"	1K025	5.48	4 1/2
182T to 215T	3/4"	3 1/4"	15 1/2"	3K343	6.64	7
182 to 215	3/4"	3 1/4"	15 1/2"	3K343	6.64	7
254T to 286T	1	4 1/4"	18 1/2"	1K027	9.27	12
254U to 286U	1	4 1/4"	18 1/2"	1K027	9.27	12
324T & 326TS	1 1/2"	4 1/4"	24 1/2"	1K028	13.66	19
324U & 326US	1 1/2"	4 1/4"	24 1/2"	1K028	13.66	19
364T to 445TS	1 1/2"	4 1/4"	30 3/4"	1K029	18.12	25
404U to 505S	1 1/2"	4 1/4"	30 3/4"	1K029	18.12	25



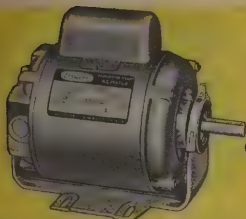
RUBBER MOUNTS FOR NOISE REDUCTION

Fasten between motor and rails or base. Used on fans, blowers, compressors, pumps, etc. Not recommended for suspended load applications. Wt. 2 oz.

Pad Size	Screw Size	Stock No.	Retail	Each	Lots 10
3/4x1" dia.	1/4-20x 3/4"	1X494	84c	56c	47c
3/4x2" dia.	3/8-16x1 1/4"	1X495	98	65	59

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2-SPEED CAPACITOR-START FAN MOTORS



\$53.03

1/2 HP

Dayton

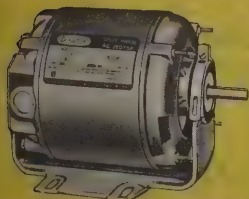
1/2 & 3/4 HP, 1725/1140 RPM, 115 & 230V, 60 Hz
For Belt-Driven Exhaust Fans, Blowers, Etc.

Low-cost, dependable Dayton capacitor motors for attic exhaust fans, belt-driven industrial blowers, etc. 1725/1140 RPM models, 60 Hz. Sound absorbing resilient mount cradle base. All-angle sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Drip-proof construction. Automatic-reset thermal protection. NEMA 56 frame. 5/8" dia. x 1 1/8" long shaft with key. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

HP	RPM	HP @ 1140 RPM	Volts 60 Hz	Thermal Protection	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/2	1725/1140	1/4	115	Automatic	9.2/6.0	5K529	\$81.00	\$53.03	26
3/4	1725/1140	1/3	115	Automatic	10.8/6.8	6K050	131.25	85.93	30
	1725/1140	1/3	230	Automatic	5.4/3.4	6K051	134.25	87.89	29

1/6 HP, 1140 RPM SPLIT PHASE FAN MOTOR

NEMA 56Z Frame. Extended Thru-Bolts



\$37.32

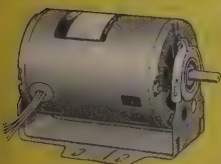
Dayton

Quiet-operating Dayton 1140 RPM motor for high-volume exhaust fans and circulators with blades up to 24" diameter, and general-purpose applications. 1/6 HP, 1140 RPM, 115V, 60 Hz, split phase, 4.5 full-load amps, open, drip-proof construction. Sleeve bearings. NEMA 56Z frame; 3 1/2" shaft height, 1/2" shaft diameter. 40°C ambient, 1.0 service factor, Class A insulation (40°C rise), continuous duty. Resilient base. Thru-bolts extended 1/2" on shaft end. Reversible rotation. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand. Shpg. wt. 17 lbs.

No. 5K559. Retail \$57.00. Each.....\$37.32

NEMA 42 FRAME 1/12 HP SPLIT PHASE MOTOR

1725 RPM, 115V, 60 Hz. Resilient Mount. All-Angle Sleeve Bearings



Dayton

\$30.93

Widely used on business machines, appliances, vending machines, printing equipment and wherever a compact, small size motor is required. 1/12 HP, 1725 RPM, 115V, 60 Hz, 3.0 full-load amp, split phase type. Resilient mount, for quiet operation. All-angle mounting, sleeve bearings. 40°C ambient, 1.4 service factor, Class B insulation (60°C rise), continuous duty. Open, drip-proof construction. NEMA 42 frame, 3/8" dia. x 1 3/4" shaft with flat. Rotation easily reversed. 2 5/8" shaft height. Mounting holes 3 1/2 x 1 1/16". Overall 8 1/16" long, 4 1/2" high, 3 1/2" dia. motor shell. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand. Shpg. wt. 9 lbs.

No. 6K265. 1/12 HP Motor. Retail \$47.25. Each.....\$30.93

NEMA 42 FRAME 1/12 HP SPLIT PHASE GE MOTOR

1725 RPM. Resilient Mount. All-Angle Sleeve Bearings



\$34.31

For fans, blowers, appliances, door openers, pumps, etc., and wherever a small-size NEMA 42 frame motor is needed. 1725 RPM, 115V, 60/50 Hz, 1425 RPM at 50 Hz. 2.1 full-load amps, split phase type with rubber mounted base. All-angle sleeve bearings. 40°C ambient, 1.4 service factor, Class A insulation (40°C rise), continuous duty. Trouble-free relay in place of centrifugal switch. NEMA 42 frame, 3/8" dia. shaft, 1 1/4" long with flat. Rotation easily reversed. 2 5/8" shaft height. Mounting holes 3 1/2 x 1 1/16". Overall length 7 1/2". 18" leads, 3/4" stripped. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. General Electric model KH29GK88. Shpg. wt. 10 lbs.

No. 5K594. Retail \$50.85. Each.....\$34.31

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

1/4 TO 1/2 HP TEFC SPLIT PHASE MOTORS

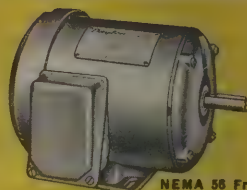


NEMA 48 Frame

1725 and 1725/1140 RPM
115V, 60 Hz. 55°C Rise

\$31.92

1/4 HP



NEMA 56 Frame

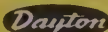
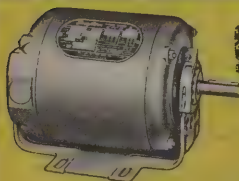
Totally enclosed, fan-cooled 1/4 to 1/2 HP split phase motors for areas where airborne dust and dirt prevail. For use on pumps, machinery, etc. 1725 and 1725/1140 RPM models, 115V, 60 Hz. 40°C ambient, 1.0 service factor, Class A insula-

tion (55°C rise), continuous duty. NEMA 48 and 56 frames. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

HP	RPM	Volts 60 Hz	Bear- ings	Mounting	NEMA Frame	—Shaft Dia.	Dimensions— Long Type	Full- Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Slv	Resilient	48	1/2"	1 1/4" Flat	4.4	6K517	\$48.75	\$31.92	17
1/3	1725	115	Slv	Resilient	48	1/2"	1 1/4" Flat	5.5	6K572	55.50	36.33	19
1/2	1725	115	Ball	Rigid	56	3/8"	1 1/2" Key	8.5	5K596	79.50	52.05	23
1/2	1725/1140*	115	Ball	Rigid	56	3/8"	1 1/2" Key	8.1	5K618	108.00	70.70	26

(*) 1/4 HP @ 1140 RPM.

1/3 HP, 3-PHASE SEWING MACHINE MOTOR

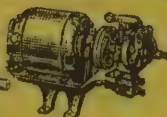


\$50.57 Designed for use on industrial-type sewing machine clutches. 1/3

HP, 1725 RPM, 208-220/440V, 60 Hz. 3-phase motor. Resilient mounted. Double-shielded, pre-lubricated ball bearings. 40°C ambient, 1.35 service factor, Class A insulation (40°C rise), continuous duty. Open, drip-proof construction. 2.8 full-load amps. NEMA 56 frame with 3/8 dia. x 1 1/8" long shaft with keyway. Rotation easily reversed. 3 1/2" shaft height. Also operable on 50 Hz. 220/440V, continuous duty at 1425 RPM. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand. Shpg. wt. 18 lbs.

No. 3N026. Retail \$77.25. Each.....**\$50.57**

1/3 HP, SPLIT PHASE SEWING MACHINE MOTOR



\$28.34

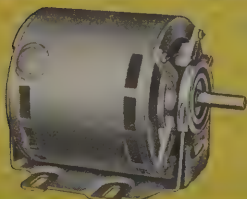


Designed especially for use with industrial-type sewing machine clutch. 1725 RPM, 115V, 60 Hz. Cradle type base with resilient rings. Sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. 6.0 full-load amps at 115V. NEMA 56 frame, 1/2" dia. x 1 1/2" long shaft with flat. Rotation easily reversed. Base to center of shaft 3 1/2". Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse style no. 317P095. 18 lbs.

No. 5K294. Retail \$42.00. Each.....**\$28.34**

GE 1/3 HP MOTOR FOR SEWING MACHINES

1725 RPM, 115V, 60 Hz. Split Phase Type



\$28.34

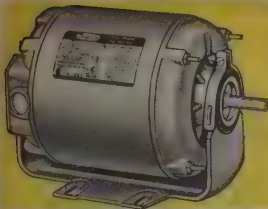


General Electric 1/3 HP split phase motor designed for use on industrial type sewing machine clutch. 1725 RPM, 115V, 60 Hz. Sleeve bearings. Resilient base. Open, drip-proof construction. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. 6.8 full-load amps. NEMA 56Z frame. 1/2" dia. x 1 1/2" long shaft with 3/8" split bushing. Rotation reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. GE model 5XBH01V. Shpg. wt. 20 lbs.

No. 6K947. Retail \$42.00. Each.....**\$28.34**

TOTALLY-ENCLOSED FAN DUTY MOTORS

1/6 to 1/2 HP, Split Phase, 1140, 1725/1140 & 1725 RPM Models



Dayton
\$28.48

No. 4K638

Dayton totally-enclosed, non-ventilated motors for air-over motor fan applications—exhaust fans, air circulators, air coolers and similar fan-duty jobs, where the air stream is directly over the motor. Handles up to 24" fan blades. 1140, 1140/1725 and 1725 RPM, 115 & 230V, 60 Hz. Resilient mounting base. All-angle mounting sleeve bearings and prelubricated ball bearing models. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. NEMA 56 frame, with 1/2 and 5/8" dia. shaft models, rotation easily reversed. 3 1/2" shaft height. Mounting holes 4 7/8 x 3". Extended thru-bolts for mounting fan guards. CSA approved. Gray finish. Dayton brand.

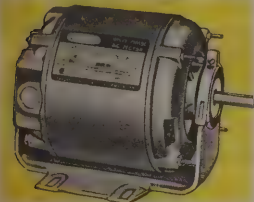
HP	RPM	Volts 60 Hz	Bearings	Thermal Protection	NEMA Frame	Shaft Dia.	Full- Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/6	1140	115	Sleeve	—	56Z	1/2"	4.6	4K650	\$60.75	\$39.77	17
1/4	1140	115	Sleeve	—	56Z	1/2"	6.0	5K523	80.25	52.54	19
1/4	1725	115	Sleeve	—	56Z	1/2"	4.4	4K638	43.50	28.48	16
1/4	1725	115	Ball	—	56Z	1/2"	4.3*	6K167	49.50	32.41	16
1/4*	1725/1140	115	Sleeve	—	56Z	1/2"	4.9†	5K547	69.60	45.56	21
1/3	1725	115	Sleeve	—	56Z	1/2"	5.2	5K019	50.25	32.90	18
1/3	1725	115	Sleeve	Auto	56Z	1/2"	5.2	6K312	52.50	34.37	18
1/3	1725	115	Ball	—	56Z	1/2"	5.4	6K083	56.25	36.83	18
1/3	1725	230	Sleeve	—	56Z	1/2"	2.6	5K670	53.25	34.86	20
1/3*	1725/1140	115	Sleeve	—	56Z	1/2"	6.4†	5K557	77.25	50.57	23
1/2	1725	115	Sleeve	—	56	5/8"	6.6	5K401	69.75	45.66	27
1/2	1725	115	Ball	—	56	5/8"	6.6	6K084	75.75	49.59	27
1/2	1725	230	Sleeve	—	56	5/8"	3.3	6K129	72.75	47.63	26

(*) 1/6 HP at 1140 RPM.

(†) Full-load amps at 1725 RPM.

2-SPEED FAN and BLOWER MOTORS

1/4, 1/3 & 1/2 HP, 1725/1140 RPM, 115 & 230 Volts



Dayton
\$33.88

1/4 HP

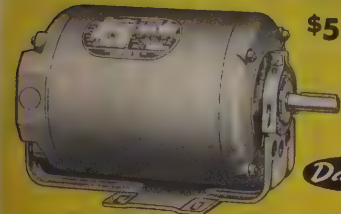
Dayton 2-speed split phase motors are precision-built for dependable service on belt-driven and direct-driven exhaust and circulator fans, blowers and many similar applications. 1725/1140 RPM, 115 & 230V, 60 Hz. Resilient mount. All-angle sleeve bearings, 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. Rotation easily reversed. NEMA 48 & 56 frames. 3" shaft height on NEMA 48 frame; 3 1/2" shaft height on NEMA 56 frame. 1/4 and 1/3 HP models have extended thru bolts on shaft end. CSA approved. Gray finish. Dayton brand.

HP 1725 RPM	HP 1140 RPM	Volts 60 Hz	NEMA Frame	—Shaft— Dia. Long	Type Shaft	Mounting Holes	Ext'd. Bolts	Full- Load Amps†	Stock No.	Retail	Each	Shpg. Wt.
1/4	1/8	115	48	1/2" 1 1/2"	Flat	4 1/4 x 2 1/4"	Yes	5.5	5K671†	\$51.75	\$33.88	18
1/4	1/12	115	56Z	1/2" 1 1/2"	Flat	4 1/2 x 3"	Yes	4.6	5K574	51.75	33.88	16
1/3	1/6	115	56Z	1/2" 1 1/2"	Flat	4 1/4 x 3"	Yes	5.8	5K554	57.00	37.32	21
1/2	1/4	115	56	5/8" 1 1/2"	Key	4 1/2 x 3"	—	8.3	5K423	73.50	48.12	23
1/2	1/4	230	56	5/8" 1 1/2"	Key	4 1/2 x 3"	—	4.8	5K556	76.50	50.08	23

(†) Low starting torque suitable for fans and other ventilating applications. (†) At 1725 RPM.

1/2 HP, 1725 RPM TENV POULTRY FAN MOTOR

Split Phase. 115/230V, 60 Hz. Ball Bearings
Automatic-Reset Thermal Protection



\$53.52

Dayton

Dayton totally enclosed non-ventilated air-over motor designed especially for use on exhaust fans operating in dirty, dusty ambients such as poultry houses.

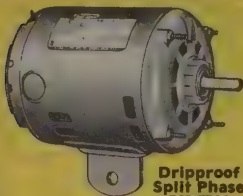
Split phase, 1725 RPM, 115/230V, 60 Hz, totally enclosed, air-over construction. Ball bearings. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. NEMA 56 frame, 5/8" dia. x 1 1/2" long shaft with key. Resilient base, automatic reset thermal protection. 6.8/3.4 full-load amps. Rotation easily reversed by electrical reconnection. CSA approved. Gray finish. Dayton brand. Shpg. wt. 25 lbs.

No. 6K771. Retail \$81.75. Each \$53.52

All motors on page recognized by UL for construction under Motor Component Recognition Program.

YOKE-MOUNTED FAN-DUTY DAYTON MOTORS

1/4 to 1/2 HP. 1 & 2-Speed and Adjustable Speed Split Phase and Permanent Split Capacitor Motors

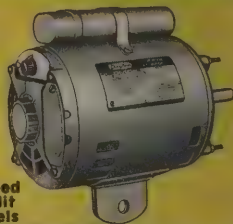


**Dripproof
Split Phase
Models**

Dayton

\$25.92

No. 6K403



**Adjustable Speed
Permanent Split
Capacitor Models**

Specifically for column-mounted, direct-drive air circulators. Welded yoke mount has $\frac{3}{16}$ " dia. hole for mounting to fan column. All-angle mounting sleeve or prelubricated ball bearings. 115V, 60 Hz. 40°C ambient, 1.0 service factor, Class A insulation, rated for air-over-motor, continuous-duty service. Open-dripproof and totally-enclosed designs. NEMA 48YZ frame, $\frac{1}{2}$ or

$\frac{5}{8}$ " dia. shafts with flat. Available with or without automatic reset thermal protection. Adjustable-speed models have built-in, solid-state AC control which provides 500 to 1550 RPM range. Extended thru-bolts for mounting fan guards. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray enamel finish. Dayton brand.

SPLIT PHASE, 115V, 60 Hz, YOKE-MOUNT FAN-DUTY MOTORS

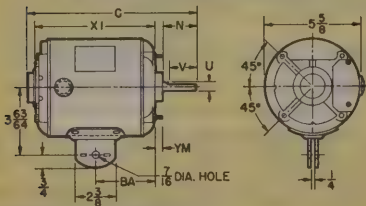
HP	RPM	Bear-ings	Enclosure	°C Rise	Thermal Prot.	Rotation (Facing Shaft)	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	Slv	Dripproof	50°	Auto	CW-Rev	4.5	6K403	\$39.60	\$25.92	13
	1725	Slv	Enclosed	55°	Auto	CW-Rev	4.5	6K406	45.03	29.48	14
	1725	Ball	Enclosed	55°	Auto	CW-Rev	4.3	6K806	50.85	33.29	15
	1725/1140†	Slv	Enclosed	55°	—	CW-Rev	4.6	6K349	65.02	28.18*	17
	1725/1140†	Ball	Enclosed	55°	—	CW-Rev	4.6	6K278	70.52	30.90*	17
	1725/1140†	Slv	Dripproof	50°	Auto	CW-Rev	4.6	6K802	53.10	34.76	16
	1725/1140†	Slv	Enclosed	55°	Auto	CW-Rev	4.6	6K803	71.13	46.57	17
1/3	1725	Slv	Dripproof	50°	—	CW-Rev	5.5	6K350	39.11	18.35*	14
	1725	Slv	Enclosed	55°	—	CW-Rev	4.8	6K355	46.76	25.16*	18
	1725	Slv	Enclosed	55°	Auto	CW-Rev	4.8	6K807	51.78	33.90	17
1/2	1725	Slv	Enclosed	55°	—	CW-Rev	6.6	6K356	65.16	29.46*	21
	1725	Slv	Dripproof	50°	Auto	CW-Rev	8.3	6K405	54.48	35.67	17
	1725	Slv	Enclosed	55°	Auto	CW-Rev	6.6	6K809	71.28	46.66	21

PERMANENT SPLIT CAPACITOR, 115V, 60 Hz, YOKE-MOUNT FAN DUTY MOTORS

1/4	1100/2 Spd.	Slv	Enclosed	55°	Auto	CW-Rev	3.9	3M504	\$55.88	\$36.25	16
	500 to 1500	Ball	Dripproof	50°	—	CW	3.4	3M261	52.00	28.45*	14
1/3	1100/2 Spd.	Slv	Enclosed	55°	—	CW-Rev	4.8	3M469	62.24	41.31	19
1/2	1100/2 Spd.	Slv	Enclosed	55°	Auto	CW-Rev	6.7	3M505	69.06	45.68	23
	500 to 1500	Slv	Dripproof	50°	Auto	CW	6.2	3M503	94.82	62.20	17

(*) While stocks last. (†) 1/15 HP at 1140 RPM.

YOKE-MOUNT FAN-DUTY MOTOR DIMENSIONS



(*) 10-32 thread on all models.

	With Thermal Pro- tection	With- out Thermal Prot.	Yoke Mount Motor Variable Dimensions—Inches							
			BA	C	N	U	V	X1	YM*	
6K403	—	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7"	1 $\frac{1}{2}$ "	
6K406	—	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7"	1 $\frac{1}{2}$ "	
6K806	—	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7"	1 $\frac{1}{2}$ "	
6K803	6K349	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
6K802	—	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7"	1 $\frac{1}{2}$ "	
—	6K278	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
—	6K350	—	3 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
6K807	6K355	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
6K405	—	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
6K809	6K356	—	3 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	2"	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	8"	1 $\frac{1}{2}$ "	
3M504	—	—	3 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	
—	3M261	—	3 $\frac{3}{4}$ "	9 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7"	1 $\frac{1}{2}$ "	
—	3M469	—	3 $\frac{3}{4}$ "	11 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	8"	1 $\frac{1}{2}$ "	
3M505	—	—	3 $\frac{3}{4}$ "	11 $\frac{1}{8}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	8"	1 $\frac{1}{2}$ "	
3M503	—	—	3 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



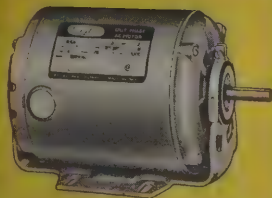
PRECISION-BUILT DAYTON SPLIT-PHASE MOTORS

1/4, 1/3 and 1/2 HP, 1725 RPM, 115 & 230V, 60 Hz. Moderate Torque

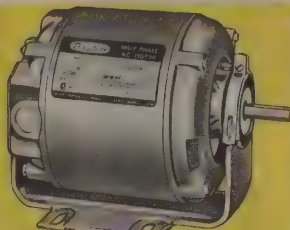
Dayton

\$23.96

No. DK279



NEMA 48 FRAME



NEMA 56 FRAME

Precision built, service-proven Dayton split phase motors. Use with confidence for new and replacement service on appliances, reducers, fans, coolers, conveyors, tools, pumps and similar moderate torque applications. 40°C ambient, 1.0 service factor, Class

A insulation (50°C rise), continuous duty. Sleeve and ball bearing models. NEMA 48 frame rigid mount motors have cradle-type base, except No. 5K984. Rotation easily reversed. Dripproof construction. Die cast rotor. Baked varnish impregnated windings. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

struction. Die cast rotor. Baked varnish impregnated windings. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

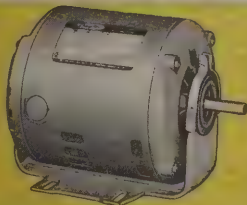
						RIGID BASE MOTORS				RESILIENT BASE MOTORS				Shpg. Wt.
HP	Volts 60 Hz	Bear- ings	Thermal Protec- tion	Shaft Dia.		Stock Nos. 48 Frame	56 Frame	Retail	Each	Stock Nos. 48 Frame	56 Frame	Retail	Each	
1/4	115	Slv	—	1/8"		5K911	5K279	\$36.60	\$23.96	5K914†	5K280†	\$38.10	\$24.94	15
	115	Slv	Auto	1/8"		—	—	—	—	5K915	5K220	40.35	26.42	15
1/3	115	Slv	—	1/8"		5K916	5K281	40.50	26.51	5K917	5K282	42.00	27.50	16
	115	Slv	Auto	1/8"		5K601	—	42.75	27.99	5K918	5K221	44.25	28.97	17
	115	Ball	Auto	1/8"		—	5K412	48.75	31.92	—	5K413	50.25	32.90	16
	230	Slv	Auto	1/8"		5K602	—	45.75	29.95	—	—	—	—	15
1/2	115	Slv	—	3/8"		5K984†	5K433	51.45	33.68	—	5K283	52.95	34.66	20
	115	Ball	Manual	3/8"		—	5K597	62.33	40.80	—	—	—	—	19
	230	Slv	—	3/8"		—	—	—	—	—	5K288	55.95	36.63	19

(†) Has extended thru bolts on shaft end for mounting fan guards.

(†) No. 5K984 has 1/2" dia. shaft and rigid, welded base.

MOISTURE-RESISTANT SPLIT PHASE MOTORS

1/3 to 3/4 HP, 115V, 60 Hz. Thermally Protected. Built for Use in High Moisture Areas



MOISTURE-RESISTANT FEATURES:

EPOXY FINISHED rotor core and stator bore.

ENAMELED endshields and base cradle.

IRIDITE FINISHED stator studs, nuts and inner and outer bearing caps.

NYLON self-lubricating actuator bracket.

RUST-RESISTANT actuator levers.

ZINC CHROMATE primer inside of shell.

Dayton

\$29.12

1/3 HP,
1725 RPM

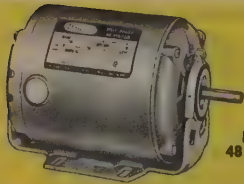
Especially-designed Dayton split phase motors built with the above moisture and rust-resistant features for use on evaporator cooler fans and pumps, and other applications in high moisture areas. 1/3 to 3/4 HP, 1725, 1725/1140, and 1725/1140/850 RPM, 115V, 60 Hz. Resilient mounting. Sleeve bearings. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Dripproof construction. Automatic reset thermal protection. Reversible rotation. 3 1/2" shaft height, mounting holes 4 1/8" x 3". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

HP at 1725 RPM	HP at 1140 RPM	RPM	NEMA Frame	Shaft Dia.	Shaft Length	Type Shaft	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/3	—	1725	56Z	1/2"	1 1/2"	Flat	6.2	6K298	\$44.48	\$29.12	17
1/3	1/8	1725/1140	56Z	1/2"	1 1/2"	Flat	6.8/3.5	6K066	58.80	38.49	20
1/2	—	1725	56Z	1/2"	1 1/2"	Flat	9.6	6K069	55.05	36.04	19
1/2	1/4	1725/1140	56Z	1/2"	1 1/2"	Flat	9.5/6.3	6K203	74.78	48.95	22
1/2	1/4	1725/1140/850†	56Z	1/2"	1 1/2"	Flat	9.0/6.5/3.0	6K737	81.15	53.13	22
3/4	—	1725	56	5/8"	1 1/2"	Key	11.6	6K222	78.35	51.29	21
3/4	1/3	1725/1140	56	5/8"	1 1/2"	Key	11.4/7.0	6K214	105.08	68.79	27

(*) NEMA 56Z frame models supplied with 5/8" split steel bushing. (†) 1/12 HP at 850 RPM.

SEE WARRANTY INFORMATION ON PAGE 684

FURNACE BLOWER and FAN-DUTY MOTORS

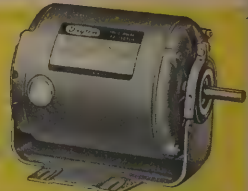
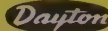


NEMA
48 FRAME

1/6 to 3/4 HP, 1725 or 1725/1140 RPM
Split Phase. Thermal Protection
40° & 50°C Rise, Continuous Duty
Low Noise, Reduced Starting Torque

\$25.53

1/6 HP



NEMA
56 FRAME

For furnace blowers, air coolers, belt-driven fans and similar applications that require reduced starting torque, low starting amps and low noise level. Split phase, 115, 208-230 & 115/230V, 60 Hz. Resilient mounted. Sleeve bearings. 40°C

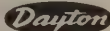
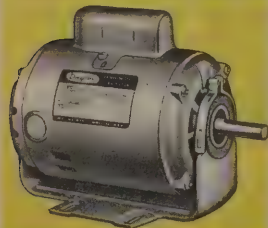
ambient, Class A insulation, continuous duty. Rotation easily reversed. Open, dripproof. Automatic reset thermal protection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray.

HP	RPM	Volts 60 Hz	NEMA Frame	Shaft Dia.	Long	Type Shaft	Full-Load Amps†	°C Rise	Service Factor	Stock No.	Retail	Each	Shpg. Wt.
1/6	1725	115	48	1/2"	1 1/2"	Flat	3.3	40	1.35	5K906	\$39.00	\$25.53	13
1/4	1725	115	48	1/2"	1 1/2"	Flat	4.9	50	1.0	5K908	40.35	26.42	13
	1725	115	48	1/2"	1 1/2"	Flat	4.3	40	1.35	5K907	42.00	27.50	15
	1725	115	48/56*	1/2"	1 1/2"	Flat*	4.7	40	1.35	5K977*	42.00	27.50	16
	1725	115	56	5/8"	1 1/2"	Key	4.4	40	1.35	5K260	42.00	27.50	16
1/3	1725	115	48	1/2"	1 1/2"	Flat	5.8	50	1.0	5K909	44.25	28.97	14
	1725	115	48	1/2"	1 1/2"	Flat	5.8	40	1.35	5K682	48.75	31.92	17
	1725	208-230	48	1/2"	1 1/2"	Flat	3.2	40	1.0	6K717	51.75	33.88	17
	1725	115	48/56*	1/2"	1 1/2"	Flat*	5.8	40	1.35	6K030*	48.75	31.92	17
	1725	115	56	5/8"	1 1/2"	Key	5.4	40	1.35	5K261	48.75	31.92	19
	1725/1140*	115	56	5/8"	1 1/2"	Key	6.4	40	1.35	5K654	75.75	49.59	21
1/2	1725	115	48	1/2"	1 1/2"	Flat	7.0	40	1.25	5K910	68.25	44.68	19
	1725	115	48/56*	1/2"	1 1/2"	Flat*	6.5	40	1.25	5K258*	68.25	44.68	18
	1725	115	56	5/8"	1 1/2"	Key	7.6	50	1.0	6K399	55.20	36.14	18
	1725	208-230	56	5/8"	1 1/2"	Key	3.9	40	1.25	6K729	71.25	46.65	21
	1725	115	56	5/8"	1 1/2"	Key	7.4	40	1.25	5K416	68.25	44.68	20
	1725/1140§	115	56	5/8"	1 1/2"	Key	9.5	50	1.0	5K620	75.75	49.59	23
	1725/1140§	115	56	5/8"	1 1/2"	Key	8.1	40	1.25	6K394	96.75	63.34	24
3/4	1725	115/230	56	5/8"	1 1/2"	Key	10.0	40	1.25	6K624	92.25	60.39	24

(*) Nos. 5K977, 5K258 and 6K030 have NEMA 48 frame body mounted on NEMA 56 frame cradle base and supplied with 5/8" split steel bushing. (†) At 1725 RPM. (§) 1/6 HP at 1140 RPM. (§) 1/4 HP at 1140 RPM.

1/2 to 2 HP CAPACITOR-START BLOWER MOTORS

1725 & 3450 RPM, 115/208-230V, 60 Hz. Automatic Thermal Protection. 40°C Rise, Continuous Duty



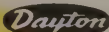
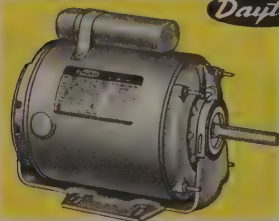
\$37.32

1/2 HP

ient mount. NEMA 48 and 56 frames. Reversible rotation. Gray. Dayton brand.

For belt-driven furnace fans and blowers that require reduced starting torque, lower starting amps and noise level. Capacitor-start, induction-run type. 40°C ambient, 1.25 service factor, Class A insulation (40°C rise), continuous duty. Automatic reset thermal protection. Open, dripproof. Sleeve bearings, except No. 6K805 has ball bearings. Resilient mount. NEMA 48 and 56 frames. Reversible rotation. Gray. Dayton brand.

HP	RPM	Volts 60 Hz	NEMA Frame (See p. 16)	Full-Load Amps @115V	Stock No.	Retail	Each	Shpg. Wt.
1/2	3450	115/208-230	48	8.6	6K804	\$57.00	\$37.32	16
3/4	3450	115/208-230	56	9.2	5K900	68.25	44.68	21
1	1725	115/208-230	56	12.8	6K157	117.00	76.60	30
1	3450	115/208-230	56	11.6	5K901	86.25	56.47	23
2	3450	115/208-230	56	20.4	6K805	138.75	90.84	37



1/4 HP, 1 & 2-SPEED FAN DUTY

Permanent Split Capacitor Type. TENV, Air-Over

\$36.92

1100 RPM

For direct driven exhaust and circulator fans. 115V, 60 Hz. Resilient mounted. Sleeve bearings. 40°C ambient, 55°C rise, continuous duty. Totally enclosed. Automatic reset thermal protection. CW rotation, easily reversed. NEMA 48 frame. Overall length 10 3/4"; 7 1/2" less shaft. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray.

HP	RPM	Full-Load Amps @1100 RPM	Stock No.	Retail	Each	Shpg. Wt.
1/4	1100	3.6	3M339	\$55.61	\$36.92	16
1/4	1100/2-Spd.	3.1	3M340	57.32	37.59	18

OIL BURNER FLANGE-MOUNT MOTORS

1/8 To 1/3 HP, 1725 or 3450 RPM

NEMA 48M, 48N & 56N FRAMES



No. 4K042
& 6K315

Dayton

\$23.57
1/8 HP



No. 4X510

No. 5K500
& 5K501

Dayton split phase motors with oil burner flange, built to conform with NEMA electrical and dimensional specifications for operation on oil burners. 1725 & 3450 RPM, 115V, 60 Hz. Sleeve bearings. 40°C (104°F) max. ambient. 1.0 service factor, Class A insulation (50°C rise), continuous duty. Enclosed, non-ventilated and ventilated models. Manual reset thermal protection. NEMA 48M, 48N and 56N frames, 1/2"

dia. x 1 1/2" long shaft with flat. Rotation easily reversed. On all except No. 6K149, one hole above and one below conduit hole are drilled and tapped, with screws to fit No. 4X510 conduit box. 20" long neoprene leads, except No. 6K712 has 20", No. 18 SJO cord, No. 6K149 has 24", No. 18 SO cord. Recognized by UL for construction under Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

HP	RPM	Enclosure	NEMA Frame	Shell Dia.	Length Less Shaft	Full-Load Amps	Stock No.	Less Conduit Box Retail	Each	Shpg. Wt.
1/8	1725	Vented Flange	48N	5 5/8"	5 1/2"	2.8	6K042	\$36.00	\$23.57	9 1/2
	1725	Non-ventilated	56N	6 3/4"	5 1/2"	2.6	5K500	36.00	23.57	11
	1725	Non-ventilated	56N	6 3/4"	5 1/2"	2.6	6K712*	36.00	23.57	12
1/7	3450	Vented Flange	48M	5 1/2"	5 1/2"	2.35	6K149†	44.25	28.97	9
1/6	1725	Non-ventilated	56N	6 3/4"	5 3/4"	3.0	5K501	39.00	25.53	14
1/4	1725	Non-ventilated	56N	6 3/4"	8 3/4"	4.2	6K711	46.50	30.44	18
	3450	Vented Flange	48N	5 5/8"	6 1 1/2"	3.5	6K315	52.88	34.62	16
1/3	3450	Vented Flange	48N	5 5/8"	6 1 1/2"	4.9	6K705	57.00	37.32	17

(*) Has 20", No. 18 SJO cord. (†) Has 24", No. 18 SO cord. All others have 20", No. 18 leads.

CONDUIT BOX FOR OIL BURNER MOTORS

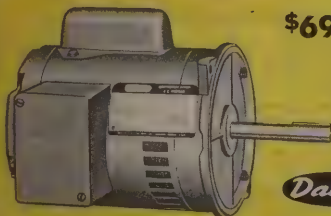
Fits Dayton oil burner motors listed above except No. 6K149. Shpg. wt. 8 oz.

No. 4X510. Retail \$1.55. Each.....\$1.18

NOTE: Although designed specifically for oil burner application, the above motors are widely used for many other flange mounted applications where starting torque requirements are low to moderate.

1/2 HP COMMERCIAL OIL BURNER MOTOR

\$69.23



Dayton

Capacitor-Start. 3450 RPM. 115/230V, 60 Hz

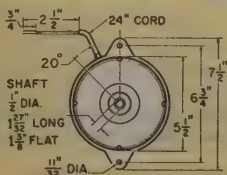
Dayton oil burner motors designed for use on commercial and industrial type oil burners. Built to NEMA electrical and dimensional specifications.

Capacitor-start, 3450 RPM, 115/230V, 60 Hz. Sleeve bearings, NEMA 56N flange, open, drip-proof construction. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Manual reset thermal protection. 5/8" dia. x 4 1/16" long shaft with flat. 9.0 full-load amps at 115V. Rotation easily reversed by electrical reconnection.

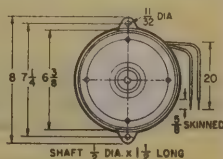
Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand. Shpg. wt. 20 lbs.

No. 6K721. Retail \$105.75. Each.....\$69.23

NEMA 48M FLANGE DIMENSIONS



NEMA 48N & 56N FLANGE DIMENSIONS



FREIGHT PREPAID on all shipments of 300 lbs. and over, unless otherwise stated.

See Sales Policy in Index for full details.

Shipment from nearest Grainger Sales Office/Warehouse, routing our choice.

MARATHON OIL BURNER MOTORS

1/8 to 1/6 HP, 1725 and 3450 RPM, 115V, 60 Hz. Split Phase Type



\$24.29

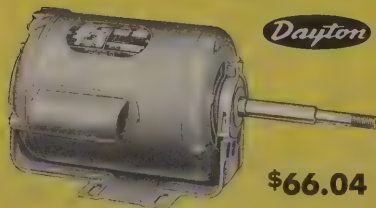
1/8 HP,
1725 RPM

Small, compact motors designed and built for reliable, long service life—backed by years of Marathon experience in supplying motors to oil burner manufacturers. NEMA 48M and 48N flange, 1725 and 3450 RPM models. 115 volt, 60 Hz. 40°C ambient, 1.0 service factor. Class B insulation (70°C rise), continuous duty. Sleeve bearings. Manual reset thermal protection. Shaft 1/2" diameter x 1 1/2" long with flat No. 18, oil-resistant polyethylene leads are 20" long. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Black finish. Marathon brand.

HP	RPM	Enclosure	NEMA Frame	Shell Dia.	Length Less Shaft	Full-Load Amps at 115V	Mfrs. Model P48S-	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	Non-Ventilated	48N	5.66"	5 3/4"	2.8	17T289	6K564	\$36.00	\$24.29	10
1/7	3450	Vented Flange	48M	5.66	5 3/4"	2.5	34S148	6K766	44.25	29.85	12
1/6	1725	Non-Ventilated	48N	5.66	5 3/4"	2.7	17T284	6K861	39.00	26.31	11

REPLACEMENT MOTOR FOR HUEBSCH DRYER

1/2 HP, 1725 RPM, 115/230V, 60 Hz. Ball Bearing, Open Dripproof Construction. Capacitor-Start Type



Dayton

\$66.04

Dayton commercial dryer motor designed for replacement use on the Huebsch commercial dryer. Built to NEMA electrical and dimensional specifications.

Capacitor-start, 1/2 HP, 1725 RPM, 115/230 volt, 60 Hz, resilient base, ball bearing, open dripproof construction. 40°C ambient, 1.25 service factor. Class A insulation (40°C rise), continuous duty. Automatic reset thermal protection. NEMA 56Z frame. Special shaft is 5 5/8" long x 3/4" dia. and 1/4" dia. with keyway and 1/4"-18 threaded end. Full-load amps, 8.6 at 115 volts. Clockwise rotation facing shaft. Motor is supplied with special control lead to energize solenoid valve. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand. Shpg. wt. 26 lbs.

No. 6K135. Retail \$100.88. Each.....\$66.04

1/4 and 1/3 HP EMERSON SPLIT-PHASE MOTORS

1725 RPM, 115V, 60 Hz. Continuous Duty. Dripproof Construction. NEMA 56Z Frame



EMERSON

\$25.70

1/4 HP,
1725 RPM

Precision built for rugged, dependable service in a wide variety of applications. High starting and running torque, exceptionally quiet operation.

Resilient mount. 1725 RPM, 115V, 60 Hz. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Dripproof construction. NEMA 56Z frame. 1/2" dia. shaft. Rotation easily reversed by electrical reconnection. Base to shaft center, 3 1/2". Large, all-angle sleeve bearings. Mounting holes, 4 1/4 x 3". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Black finish. Emerson brand.

HP	RPM	Mounting Holes	Full-Load Amps at 115V	Mfrs. Model S060SGA55-	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	4 1/4 x 3"	5.2	4872	4K625*	\$38.10	\$25.70	14
1/3	1725	4 1/4 x 3"	6.0	4772	4K626	42.00	28.34	16

(*) Has extended thru-bolts so fan guard can be attached.

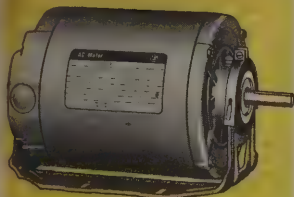
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

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You save time and money when you place pick-up orders by phone. Our people can have your merchandise ready when your truck arrives, and a special Will-Call section at our counter gives your driver extra-fast service.

WESTINGHOUSE SPLIT PHASE MOTORS

Type FHT. Continuous Duty. NEMA 48 & 56 Frames. Open, Dripproof Construction

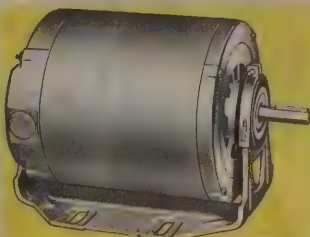


NEMA 48 FRAME



\$24.69
1/4 HP

Westinghouse type FHT, open, dripproof, split phase motors generally used on applications requiring an inexpensive motor with higher starting torque than general-purpose split phase type. For continuous duty or intermittent duty applications—for example on attic fans, air circulating fans, farm and home



NEMA 56 FRAME

workshop tools. Choice of 1/4 to 1/2 HP, 1725 or 3450 RPM, 115 or 230V, 50 or 60 Hz, NEMA 48 or 56 frames. 40°C ambient, 1.0 service factor, continuous duty. 1/4 and 1/3 HP motors have Class A insulation (50°C rise); 1/2 HP models have Class B insulation (70°C rise). Sleeve or ball bearings, rigid or resilient mounting. Sleeve bearing models have an extra large bearing with

Nylon thrust washer that permits all-angle mounting. Die-cast rotor. Automatic or manual reset thermal protected models as listed. Rotation easily reversed by electrical reconnection. These motors are recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

60 Hz, SPLIT PHASE, TYPE FHT, CONTINUOUS DUTY

HP	RPM	Volts	Bear-ings	Mount- ing	Thermal Protec- tion	NEMA Frame (See p. 16)	Shaft Dia.	Full- Load Amps	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Slv	Rigid	—	48	1/2"	5.8	316P558	4K678	\$36.60	\$24.69	13
	1725	115	Slv	Rigid	—	56Z	1/2"	5.8	317P020	6K086	36.60	24.69	13
	1725	115	Slv	Resil	—	48	1/2"	5.8	316P001	4K679*	38.10	25.70	13
	1725	115	Slv	Resil*	—	56Z	1/2"	5.8	317P038	6K090*	38.10	25.70	13
	1725	115	Slv	Resil	Auto	48	1/2"	5.8	316P561	4K735	40.35	27.22	12
	1725	115	Slv	Resil	Auto	56Z	1/2"	5.8	317P022	6K091	40.35	27.22	13
	1725	115	Ball	Resil	—	48	1/2"	5.8	316P245	5K309	44.10	29.75	13
1/3	1725	115	Slv	Rigid	—	48	1/2"	6.2	316P566	4K680	40.50	27.32	14
	1725	115	Slv	Rigid	—	56Z	1/2"	6.2	317P024	6K092	40.50	27.32	14
	1725	115	Slv	Rigid	Man	56Z	1/2"	6.2	317P025	6K093	45.38	30.61	15
	1725	115	Slv	Resil	—	48	1/2"	6.2	316P567	4K681	42.00	28.34	15
	1725	115	Slv	Resil	—	56Z	1/2"	6.2	317P026	6K094	42.00	28.34	15
	1725	115	Slv	Resil	—	56Z§	1/2"	6.2	317P030	6K076§	44.25	29.85	15
	1725	115	Slv	Resil	Auto	48	1/2"	6.2	316P571	4K736	44.25	29.85	14
	1725	115	Slv	Resil	Auto	56Z	1/2"	6.2	317P027	6K095	44.25	29.85	15
	1725	115	Ball	Rigid	—	56Z	1/2"	6.2	317P044	6K073	46.50	31.37	15
	1725	115	Ball	Resil	—	48	1/2"	6.2	316P246	5K304	48.00	32.38	15
	1725	115	Ball	Resil	—	56Z	1/2"	6.2	317P031	6K074	48.00	32.38	16
	1725	230	Slv	Resil	—	48	1/2"	3.4	316P293	5K310	45.00	30.36	15
	1725	230	Slv	Resil	—	56Z	1/2"	3.3	317P032	6K096	45.00	30.36	16
	3450	115	Slv	Rigid	—	48	1/2"	5.3	309P307	4K941	40.50	27.32	14
1/2	1725	115	Slv	Rigid	—	56	5/8"	8.3	317P033	6K097	51.45	34.71	16
	1725	115	Slv	Resil	—	56	5/8"	8.3	317P039	6K098	52.95	35.72	18
	1725	115	Slv	Resil	Auto	56	5/8"	8.3	317P040	6K099	55.20	37.24	18
	1725	115	Ball	Resil	—	56	5/8"	8.3	317P037	6K075	58.95	39.77	18

50 Hz, SPLIT PHASE, TYPE FHT, CONTINUOUS DUTY

1/3	1425	220	Slv	Resil	—	56Z	1/2"	2.8	317P111	5K169	\$54.00	\$36.43	18
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(*) Extended studs on shaft end for fan guard. (§) Double shaft extensions.

Note: Standard rotation is counterclockwise facing end opposite shaft extension.

Large terminal box makes it easy to re-wire motors for opposite rotation.

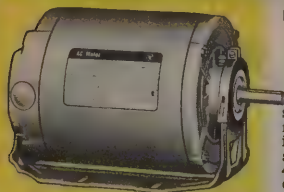
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

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1/8 to 3/4 HP FURNACE & BELT-DRIVE BLOWER MOTORS

1725 RPM, 115V, Split Phase Type. Auto. Thermal Protection
Low Noise, Reduced Starting Torque. 40°C Rise, Continuous Duty



NEMA 48 Frame

\$26.21
1/8 HP



Built for quiet, dependable service on warm air furnaces, belt-driven fans and blowers, air conditioners, air coolers, and wherever a motor having a low noise level, reduced starting torque and low starting current is required. Low starting current reduces light flicker. Dynamically balanced rotor assembly and resilient mounting reduce vibration and electrical noises. Starting winding designed to bring load to speed at a uniform rate. 1725 RPM, 60 Hz, 40°C ambient, Class A insulation (40°C rise), except No. 5K269 is Class B insulation (60°C rise). Continuous duty. Automatic-reset thermal protection. All angle mounting sleeve bearings. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

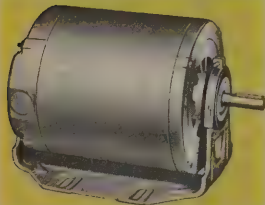
HP	RPM	Volts 60 Hz	Bear- ings	NEMA Frame (See p. 16)	Thermal Prot.	Full- Load Amps @ 115V	Service Factor	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	115	Slv	48†	Auto	2.4	1.35	316P503	6K009	\$38.85	\$26.21	11
1/6	1725	115	Slv	48†	Auto	4.0	1.35	316P824	5K215	39.00	26.31	11
1/4	1725	115	Slv	48†	Auto	5.1	1.35	316P758	5K216	42.00	28.34	13
	1725	115	Slv	48/56*	Auto	5.1	1.35	317P103	6K463	42.00	28.34	13
	1725	115	Slv	56	Auto	5.1	1.35	317P002	6K105	42.00	28.34	14
1/3	1725	115	Slv	48†	Auto	5.9	1.35	316P759	5K257	48.75	32.89	15
	1725	115	Slv	48/56*	Auto	5.9	1.35	317P104	6K362	48.75	32.89	15
	1725	115	Slv	56	Auto	5.9	1.35	317P003	6K106	48.75	32.89	15
1/2	1725	115	Slv	56	Auto	7.2	1.25	317P004	6K104	68.25	46.05	18
3/4	1725	115/230	Slv	56	Auto	11.0	1.25	312P629	5K269	92.25	62.24	22

(*) Nos. 6K463, 6K362 have NEMA 48 frame body mounted on NEMA 56 frame cradle base, have 1½" long, ½" dia. shaft and are supplied with ⅝" split steel shaft bushing.

(†) Mounting base has 48 and 56 frame mounting holes. Motor shaft height 3"; 1½" long, ½" dia. shaft, supplied with ⅝" split steel shaft bushing.

1/4 to 1/2 HP BELT-DRIVE and FAN MOTOR

Reduced Starting Torque. 50°C Rise. Continuous Duty
1725 RPM, 115V, 60 Hz. Automatic Reset Thermal Protection



\$27.22
1/4 HP



Westinghouse split phase motors for use on blowers, air coolers, belt-driven fans, etc. Reduced starting torque, low starting amperes. Automatic reset thermal protection. 115V, 60 Hz. Resilient mount. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty.

All-angle mounting sleeve bearings. Dripproof construction. NEMA 48 and 56 frame models: see dimension table and drawing on page 16. 56Z frame models supplied with ⅝" split bushing. Rotation easily reversed. Quick-connect terminals. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bear- ings	Mount- ing	Thermal Prot.	NEMA Frame (See p. 16)	Full- Load Amps @ 115V	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Slv	Resil	Auto	48†	6.0	316P311	5K943	\$40.35	\$27.22	13
	1725	115	Slv	Resil	Auto	56Z	6.0	317P049	6K068	40.35	27.22	14
1/3	1725	115	Slv	Resil	Auto	48†	6.3	316P312	5K944	44.25	29.85	15
	1725	115	Slv	Resil	Auto	56Z	6.2	317P050	6K071	44.25	29.85	15
1/2	1725	115	Slv	Resil	Auto	56	7.6	317P036	6K072	55.20	37.24	18

Note: Standard rotation counterclockwise facing end opposite shaft; easily reversed by electrical reconnection.

(†) Mounting base has 48 and 56 frame mounting holes. Motor shaft height 3"; 1½" long, ½" dia. shaft, supplied with ⅝" split steel shaft bushing.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE
CURRENT EDITION OF FORM 551943.

WESTINGHOUSE OIL BURNER MOTORS

1/8 to 1/4 HP, 1725 and 3450 RPM Models, 115V, 60 Hz. Manual Reset Thermal Protection



\$24.29

1/8 HP



NEMA 48N frame split phase motors with oil burner flange. 1/8, 1/6 and 1/4 HP, 1725 and 3450 RPM models, 115V, 60 Hz. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise).

Enclosed, non-ventilated and ventilated models, continuous duty. Sleeve bearings. Nylon thrust washer permits all-angle mounting. Manual reset thermal protection. Factory-connected for CW rotation viewing end opposite shaft end; easily reversed by electrical reconnection. Terminal box and conduit hole on end bell. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Westinghouse brand.

See diagram below for flange and shaft dimensions.

HP	RPM	Enclosure	NEMA Frame (See below)	Full-Load Amps	Detail on Leads or Cable (Viewing End Opp. Shaft)	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	Vented Flange	48N	2.8	10" Cable at 5 O'clock	316P404	6K208	\$36.00	\$24.29	10
	1725	Non-Vent	48N	2.5	20" Leads at 3 O'clock	316P687	6K579	36.00	24.29	10
1/6	1725	Non-Vent	48N	3.2	20" Leads at 3 O'clock	316P717	6K429	39.00	26.31	13
1/4	1725	Non-Vent	48N	3.7	20" Leads at 3 O'clock	316P699	6K603	46.50	31.37	17
	3450	Vented Flange	48N	3.5	20" Leads at 3 O'clock	316P912	6K209	52.88	35.67	17

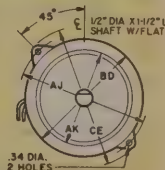
NEMA 48N MOTOR FLANGE DIMENSIONS

OIL BURNER MOTORS

NOTE: Although designed applications, specifically for oil burner application, the above motors are widely used for many other flange mounted applications.

48N

AJ	7 1/4"
BD	6 1/2"
AK	6 5/8"
CE	8 1/8"



WESTINGHOUSE MOISTURE RESISTANT MOTORS

1/3 to 3/4 HP, Split Phase, 1 & 2 Speed, 115V, 60 Hz. For Use on Evaporative Coolers



\$29.85

No. 5K903



MOISTURE RESISTANT FEATURES:

Zinc Chromated Corrosion Protected Rotor
Moisture Resistant Mylar Slot Insulation
Corrosion Protected Shaft
Permanently Lubricated Sleeve Bearings
Brass Hardware on Stationary Switch
Installed Ground Screw

Westinghouse Frost-Line moisture resistant motors designed for dependable service on evaporator cooler fans, pumps, and other applications in high moisture areas. 1/3 to 3/4 HP. 1 and 2 speed, 115V, 60 Hz. Resilient mounting. Permanently lubricated sleeve bearings rated for 20,000 hours life, 40°C ambient, 1.0 service factor,

Class B insulation (70°C rise), continuous duty, drip-proof. Automatic reset thermal protection. NEMA 56Z frame. Shaft rotation CW facing shaft, non-reversible. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. NEMA shaft and mounting dimensions on page 16. Gray finish.

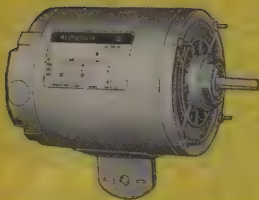
HP at 1725 RPM	HP at 1140 RPM	RPM	NEMA Frame (See p. 15)	Shaft Dia.	Shaft Length	Type Shaft	Full-Load Amps	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/3	1725	56Z	1 1/2"	1.5	Flat	7.2	320P233	5K903	\$44.25	\$29.85	14	
1/3	1725/1140	56Z	1 1/2"	1.5	Flat	7.2/3.3	320P236	5K904	59.25	39.97	17	
1/2	1725	56Z	1 1/2"	1.5	Flat	8.8	320P234	5K905	55.20	37.24	16	
1/2	1725/1140	56Z	1 1/2"	1.5	Flat	8.8/4.0	320P237	5K920	75.75	51.11	19	
3/4	1725	56Z	1 1/2"	1.5	Flat	10.2	320P235	5K957	77.25	52.12	20	
3/4	1725/1140	56Z	1 1/2"	1.5	Flat	10.1/4.4	320P238	5K963	105.00	70.84	22	

(* Supplied with 5/8" split bushing with key.

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

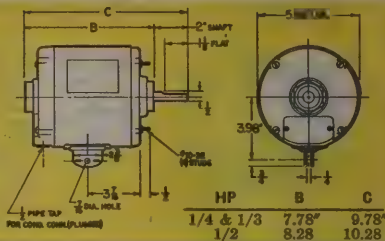
WESTINGHOUSE YOKE MOUNTED FAN MOTORS



1/4 to 1/2 HP
Split Phase
1725 RPM
115V, 60 Hz

\$26.72

1/4 HP, No. 6K730



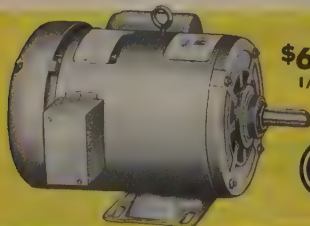
Split phase motors designed for column mounted direct drive air circulators. 1725 RPM, 115V, 60 Hz. Sleeve bearings. 40°C ambient, 1.0 service factor, rated for air-over applications, continuous duty. Open, dripproof or totally-enclosed

construction. Welded yoke mount with 7/16" dia. hole for mounting to fan column. NEMA 48YZ frame. Extended thru-bolts for mounting fan guards. Rotation reversed by reconnection. CSA approved. Gray finish. Westinghouse brand.

HP	RPM	Volts 60 Hz	Enclosure	—Shaft— Dia. Long	Thermal Protec- tion	Full- Load Amps	°C Rise	Insula- tion Class	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Dripproof	1/2" 2"	—	5.8	50	A	6K928	\$29.88	\$15.12*	12
	1725	115	Dripproof	1/2" 2"	Auto	5.8	50	A	6K730	39.60	26.72	12
	1725	115	Enclosed	1/2" 2"	Auto	4.2	50	A	6K732	45.00	30.36	14
1/3	1725	115	Dripproof	1/2" 2"	—	6.2	50	A	6K930	41.25	27.83	14
	1725	115	Enclosed	1/2" 2"	—	5.2	50	A	6K931	49.50	33.40	16
1/2	1725	115	Dripproof	1/2" 2"	—	8.3	70	B	6K932	41.76	22.58*	17
	1725	115	Dripproof	1/2" 2"	Auto	8.3	70	B	6K733	54.45	36.74	16

(*) While stocks last.

WESTINGHOUSE FARM DUTY CAPACITOR MOTORS



\$68.31
1/2 HP



1/2 to 1 1/2 HP, 1725 RPM, TEFC, 115/230V, 60 Hz
Ball Bearings. Manual-Reset Thermal Protection

Westinghouse totally enclosed, fan cooled motors designed for farm applications such as feeders, augers, conveyors, hay hoists, and similar equipment.

1/2 to 1 1/2 HP, capacitor start. Totally enclosed, fan-cooled construction. 115/230V, 60 Hz. Rigid base, ball bearings, 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Manual reset thermal protection.

Motors supplied with slinger on shaft. Rotation easily reversed by electrical reconnection. CSA approved. Green. Westinghouse brand.

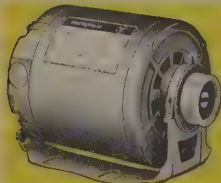
HP	RPM	Volts 60 Hz	Bear- ings	Mount- ing	Thermal Prot.	NEMA Frame	Full- Load Amps	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/2	1725	115/230	Ball	Rigid	Manual	56	8.7	312P899	6K613	\$101.25	\$68.31	30
3/4	1725	115/230	Ball	Rigid	Manual	56	11.2	312P900	6K615	121.50	81.97	38
1	1725	115/230	Ball	Rigid	Manual	56H	14.0	312P901	6K616	132.75	89.56	41
1 1/2	1725	115/230	Ball	Rigid	Manual	56H	16.4	312P902	6K651	164.25	110.81	50

CARBONATOR PUMP MOTOR

1/4 HP, 1725 RPM, Split Phase, 115V, 60 Hz

Westinghouse close-coupled motor for use on carbonator pumps, liquid transfer pumps and vending units. Special machined hub and short shaft, built to NEMA dimensional and electrical standard.

Split phase, 1725 RPM, 115V, 60 Hz. Open, dripproof construction, sleeve bearings. 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. NEMA 48Y frame, resilient base. Rotation easily reversed. CSA approved. Gray. Westinghouse brand.



\$28.74

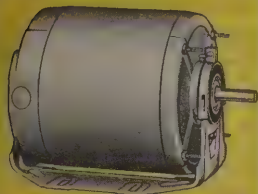


HP	RPM	Volts 60 Hz	Mounting	Thermal Prot.	NEMA Frame	Full- Load Amps	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Resilient	Auto	48Y	5.8	316P496	6K948	\$42.60	\$28.74	13

All motors on page recognized by UL for construction under Motor Component Recognition Program.

TOTALLY ENCLOSED FAN DUTY SPLIT PHASE MOTORS

1/4 & 1/3 HP, 1725 RPM, 1/6 & 1/4 HP, 1140 RPM



\$27.32

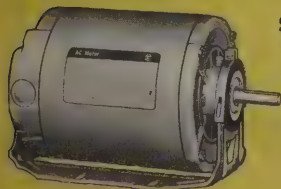
1/4 HP,
1725 RPM

Westinghouse totally-enclosed split phase motors for exhaust and circulator fans, air coolers and similar air-over-motor applications. Use on fans that operate in dusty and humid areas. Power up to 24" fan blades. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. 115V, 60 Hz. Resilient mounted for quiet operation. Thru-bolts extend 1/2" beyond nut for mounting fan guard. Rotation easily reversed by electrical reconnection. All-position mounting sleeve bearings. 3" shaft height on NEMA 48 frames; 3 1/2" on NEMA 56 frames. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

HP	RPM	NEMA Frame	— Shaft — Dia. Long	Type Shaft	Mounting Holes	Full-Load Amps	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/6	1140	48	1/2 1 5/8	Flat	4 1/4 x 2 3/4	4.2	309P485	5K275	\$57.75	\$38.96	18
1/4	1140	56	5/8 1 7/8	Key	4 7/8 x 3	5.3	311P254	5K277	77.25	52.12	24
1/4	1725	48	1/2 1 5/8	Flat	4 1/4 x 2 3/4	4.2	316P136	5K274	40.50	27.32	14
1/3	1725	48	1/2 1 5/8	Flat	4 1/4 x 2 3/4	5.2	316P137	5K276	47.25	31.88	16

1/6, 1/4, 1/3 HP SPLIT PHASE WESTINGHOUSE MOTORS

1725 RPM, 115V, 60 Hz. 40°C Rise. Moderate Starting Torque, Low Starting Current



\$24.79

1/6 HP
No. 5K301



Precision built Westinghouse split phase motors for new and replacement service on appliances, reducers, fans, coolers, conveyors, tools, pumps and similar moderate starting torque applications. 40°C ambient, 1.35 service factor, Class A insulation (40°C rise), continuous duty. All angle mounting, with high load carrying capacity sleeve bearings. NEMA 48 frame resilient mount motors with cradle-type base. Rotation easily reversed by electrical reconnection. Dripproof construction. Dynamically balanced rotor assembly for smooth, steady starting. Baked varnish impregnated windings. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bearings	Mounting	Service Factor	NEMA Frame (Seep.16)	Full-Load Amps at 115V	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/6	1725	115	Slv	Resil	1.35	48	4.0	316P347	5K391	\$36.75	\$24.79	11
1/4	1725	115	Slv	Resil	1.35	48	5.0	316P349	5K648	39.75	26.82	13
1/3	1725	115	Slv	Resil	1.35	48	5.9	316P350	5K649	46.50	31.37	14

1/3 HP DISHWASHER REPLACEMENT MOTOR

3450 RPM, 115V, 60 Hz. Split Phase Type. Fits Most Popular Dishwasher Brands



\$24.79

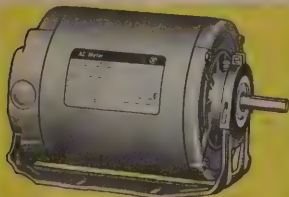
Westinghouse dishwasher motor is designed and built to replace original equipment motor on dishwashers built after 1966 for the following manufacturers: Admiral, Caloric, Chambers, Frigidaire, Gaffers & Sattler, Gibson, Kelvinator, Kenmore, Leonard, Magic Chef, Modern Maid, Norge, Philco, Preway, Roper, Sears Roebuck, Welit and Westinghouse. Replaces the following factory installed motor model numbers: GE 5KH42AT10 and 5KH42AT14S; Delco C2805A-2; Emerson DW2368 and S5SCLA2219; Sears Roebuck 806300; and Westinghouse 314P346 and 321P900.

Split phase type, 1/3 HP, 3450 RPM, 115 volt, 60 Hz. Sleeve bearings. 40°C ambient, 1.0 service factor, Class B insulation (70°C rise). Automatic reset thermal protection. Full-load amps, 5.8. Shaft 1/2" dia. x 1 1/2" long. Motor is supplied with relay and mounting kit shown in photo. Complete installation instructions also included. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Westinghouse style no. 329P003. Shpg. wt. 9 lbs.

No. 6K360. Retail \$36.75. Each **\$24.79**

WESTINGHOUSE BALL-BEARING SPLIT PHASE MOTORS

1/4, 1/3 and 1/2 HP, 1725 RPM, 115V, 60 Hz. Ball Bearings
Continuous Duty, NEMA 48 and 56 Frames



\$29.75

1/4 HP

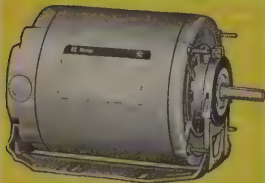


Ball-bearing, split phase motors for attic fans, blowers, tools and similar applications. 1/4 to 1/2 HP, 1725 RPM, 115V, 60 Hz, rigid or resilient mounting. Sealed ball bearings permit mounting in any position. Westinghouse type FHT, 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), except No. 6K075 is Class B insulation (70°C rise). Continuous duty. Open, drip-proof construction. NEMA 48 or 56 frame models. Shaft rotation CW facing shaft, easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Westinghouse brand.

HP	RPM	Volts 60 Hz	Bear- ings	Mount- ing	NEMA Frame (See p. 16)	Shaft Dia.	Full- Load Amps	Westing- house No.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	115	Ball	Resilient	48	1/2"	5.8	316P245	5K309	\$44.10	\$29.75	13
1/3	1725	115	Ball	Rigid	56Z	3/8"	6.2	317P044	6K073	46.50	31.37	15
	1725	115	Ball	Resilient	48	1/2"	6.4	316P246	5K304	48.00	32.38	15
	1725	115	Ball	Resilient	56Z	1/2"	6.2	317P031	6K074	48.00	32.38	16
1/2	1725	115	Ball	Resilient	56	3/4"	8.3	317P037	6K075	58.95	39.77	18

1/6 HP, 1140 RPM GENERAL-PURPOSE MOTOR

For Air Circulators, Exhausters, Appliances, Etc. NEMA 48 Frame



\$38.46



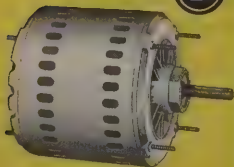
For quiet-operating, high-volume exhaust fans and air circulators with up to 24" dia. standard blades, and other general purpose applications. 1/6 HP, 1140 RPM, 115V, 60 Hz. 4.9 full-load amps, split phase type. 40°C ambient, 1.35 service factor, Class A insulation (40°C rise), continuous duty. NEMA 48 frame. 3" shaft height, 1/2" dia. shaft. Rotation easily reversed. Resilient mount. Extended thru-bolts for attaching fan guards, etc. Mounting holes 4 1/4 x 2 3/4". Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. NEMA dimensions listed on page 16. Gray. Westinghouse Style No. 309P550. Shpg. wt. 16 lbs. No. 5K404. 1/6 HP, 1140 RPM Motor. Retail \$57.00. Each.....\$38.46

1/3 & 1/2 HP HOME LAUNDRY REPLACEMENT MOTORS

For Many Brands and Models of Automatic Washers, Gas and Electric Dryers

WASHER MOTOR
1/2 HP, 1725/1140 RPM

\$35.42



Replacement for many factory-installed motors on home washers, gas and electric dryers. Split phase, 115V, 60 Hz. Sleeve bearings, 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Automatic reset thermal protection. Installation instructions supplied. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved.

These motors are designed for use on laundry equipment; use on other applications voids warranty. Westinghouse brand.

DRYER MOTOR
1/3 HP, 1725 RPM

\$26.92



DRYER MOTOR replaces factory-installed motors in most brands and models of gas and electric dryers, such as Blackstone, Easy, Frigidaire, General Electric, Hamilton, Hotpoint, Maytag, Kelvinator, Norge, Philco-Bendix non-reversing models, Signature built after 1960, Speed Queen and Wizard models with belt around drum. Has resilient rings for mounting to existing motor base on dryer. NEMA 56Z frame. Has two 1/2" dia. shafts; 1 5/8" long shaft on switch end, 1 3/4" long shaft on opposite end.

WASHER MOTOR replaces all factory-installed motors on Whirlpool and Kenmore single and two-speed automatic washers (except compact models), all Maytag single and two-speed automatic washers built after 1960. Complete installation instructions supplied with each motor.

Type	HP	RPM	Volts 60 Hz	Bearings	Thermal Prot.	No.	Shaft(s) Dia. Long	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
Washer	1/2	1725/1140	115	Sleeve	Auto	1	1/2" 2"	320P304	6K742	\$52.50	\$35.42	19
Dryer	1/3	1725	115	Sleeve	Auto	2	1/2" 1 5/8" & 1 3/4"	320P067	5K898	39.90	26.92	13

1/15 to 1/2 HP UNIVERSAL-TYPE AC-DC MOTORS

5,000 to 10,000 RPM, 115V, AC-DC Continuous Duty for Tools, Machines, Blowers, Etc.



A



B

Dayton

Precision-built, high speed, universal-type Dayton motors, widely used for replacement on power tools (grinders, etc.), domestic sewing machines, garden and lawn equipment, blowers, jewelers' lathes and similar high-speed applications.

AC/DC, series wound, 115V, 60 Hz, continuous duty. Full-load speeds shown below are adjustable with proper rheostat. Sleeve and ball bearing types. Class A insulation. Internal cooling fan. Rotors dynamically or statically balanced. Average brush life approximately 300 hours of service. Black enamel finish.

Quantity prices available to OEM on motors listed below; also on modified versions. Send inquiries to nearest Grainger address for fast service.



C



D

Fig.	HP	Full-Load RPM	Mtg.	Bearings	Shaft Dia.	Long	Body Dia. or Ht.	Length Less Shaft	Overall Length	Full-Load Amps	Rotation†	Leads	Stock No.	Each	Lots 6	Shpg. Wt.
A	1/15	5,000	Side†	Slv	1/4"	3/4"	2 3/4"	4 3/8"	5 1/8"	1.2	CCW	18"	2M033	\$7.86	\$7.31	2
A	1/15	5,000	Side†	Slv	1/4"	3/4"	2 3/4"	4 3/8"	5 1/8"	1.2	CW	18"	2M034	7.88	7.31	2
A	1/15	5,000	Side†	Ball	1/4"	1"	2 3/4"	4 3/8"	5 1/8"	1.2	CCW	5"	2M057	11.91	11.09	2
B	1/15	5,000	Rigid	Slv	3/4"	1"	2 3/4"	4 3/8"	5 1/8"	1.2	CCW	18 1/2"	2M066	8.83	8.13	2 1/2
A	1/10	8,000	Side†	Ball	1/4"	1"	2 3/4"	4 3/8"	5 1/8"	1.5	CCW	5"	2M037	14.39	13.40	2 1/2
C	1/7	10,000	Stud§	Slv	5/16"	1"	3"	3 1/2"	4 1/2"	2.0	CCW	5"	2M144	11.33	10.56	2 1/2
C	1/5	10,000	Stud§	Slv	5/16"	1"	3"	4 3/8"	5 1/8"	2.4	CCW	5"	2M139	12.47	11.62	3
D	1/2	10,000	Bot.x	Ball	3/8"	1 1/16"	3 1/2"	6 1/16"	7 3/8"	6.3	CCW	12"	2M145	31.35	29.24"	7

(*) 4-lot price, others above lots 6. (†) Two tapped 10/32 holes, 2 3/4" OC, with screws on one side.

(‡) Two tapped 10/32 holes, 2 3/4" OC both sides. (x) Four tapped 10/32 mounting holes on bottom, 2x2 15/16" OC.

(§) Studs 2 1/16" OC. (†) Facing shaft, except No. 2M066 is facing shaft opposite leads.

BRUSH AND SPRING REPLACEMENTS FOR ABOVE

Standard parts for No. 2M033, 2M034, 2M037, 2M057 and 2M066 motors. Packed 6 pieces per set.

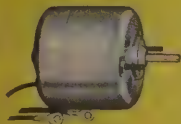
CARBON BRUSHES, No. 1R205, per set...\$1.39

COPPER COIL SPRINGS, No. 1R206, per set \$0.47

AUTOMOTIVE 6 & 12V DC

1/35 HP, 2350 RPM. 1/4" x 1" Shaft
Totally Enclosed

\$6.87 Lots 20



Dayton automotive replacement motors for car heater fans, blowers, air conditioners, pumps, other uses. 1/35 HP, 2350 RPM, 6 or 12V DC. Continuous duty. Totally enclosed construction. Sleeve bearings.

Two 8-32 NF mounting studs 2 1/16" OC, 1 1/2" long. 1/4" dia. x 1" long shaft with flat. CW rotation as viewed from shaft end. Zinc finish. Dayton brand. Shpg. wt. 1 3/4 lbs.

HP	RPM	Volts DC	Stock No.	Retail	Each	Lots 20
1/35	2350	6	2M273	\$11.25	\$7.49	\$6.87
1/35	2350	12	2M272	11.25	7.49	6.87

Quantity Motor Prices for OEM Buyers

Quantity motor prices are available to equipment manufacturers on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs can be shipped from local Grainger stocks as needed, at competitive factory prices. Call us first, save time and money.

ELECTRONIC SPEED CONTROL

For AC-DC and Series DC Motors
Variable Speed with Constant Torque



Dayton

\$9.16

5 Amp
Lots 12

Turn of dial permits wide range of speed control from 0 to 80% of full speed of power tools, appliances, sewing machines, grinders, blowers, pumps, gearmotors, that are driven by AC-DC (Universal) brush-type motors. Speed adjustment is accomplished without loss of motor torque.

Dial sets speed desired, electronic feed-back maintains speed, increasing voltage to motor as load increases. Full speed obtained by rotating dial to extreme clockwise position. Two models available; 5 & 10 amp, 115V, which mount in panels or directly into standard "handy" boxes. 5 amp model uses existing single gang wall plate, 10 amp uses double gang plate ("handy box" and wall plate not included). Easy to install and operate, easy-to-follow instructions included. Shpg. wts. 4 and 9 oz. respectively.

Amps	Stock No.	Each	Lots 3	Lots 6	Lots 12
5	4X796	\$10.72	—	\$9.79	\$9.16
10	4X797	19.63	\$18.22	—	16.84

BRACKETS for DIRECT-DRIVE BLOWER MOTORS



For mounting NEMA 48 frame direct-drive blower motors with 2½" dia. rubber rings to venturi of 9 to 12" diameter wheel blower housing. Length is adjustable from 3½ to 6½". Kit includes bracket and hardware. No. 4C031 bracket is used with No. 3M030, 3M118, 3M380, 3M392, 3M393 and 3M601 motors; and on No. 2C886, 2C944, 4C030 & 4C058 blowers. No. 4C150 bracket is used with No. 3M142 motor and No. 4C117 blower. No. 4C266 bracket is used with No. 3M222 motor and No. 4C252 blower.

Blower Use	Bracket Length	Stock No.	Retail	Each	Shpg. Wt.
9" Wheel	3½ to 6½"	4C031	\$6.37	\$3.82	2
10 Wheel	3½ to 6½"	4C150	5.58	3.34	2
12 Wheel	3½ to 6½"	4C266	7.38	4.42	3

BRACKETS for AIR CONDITIONING & HEATING MOTORS

MOTOR LENGTH ADAPTER KIT

Provides up to 4" additional motor length when required to fit blower motor base. Kit includes die-cast end bracket, necessary hardware and instructions. Shpg. wt. 8 oz.

For NEMA 48 Frame	Stock No.	Retail	Each	Lots 4
Permanent Split Cap.	3M046	\$5.69	\$3.79	\$3.54
Shaded Pole	3M047	5.69	3.79	3.54

3-RING BLOWER MOTOR MOUNTING BRACKET

For mounting motor on blower with large wheel opening. Kit includes adj. steel bracket with 3 welded rings and rubber grommets, hardware and instructions. Shpg. wt. 1 lb.

For NEMA 48 Frame	Rings OC	Stock No.	Retail	Each	Lots 4
Permanent Split Cap.	10"	3M147	\$5.79	\$3.83	\$3.58
Shaded Pole	9½"	3M146	5.79	3.83	3.58

LUG-RING MOUNTING ADAPTER KIT

Adjustable for 4 and 5" dia. furnace blower, unit heater and other motors. Independent lugs with 1¼" slotted holes and ¾" knock-outs are adaptable to a wide range of mounting dimensions. Kit includes adjustable ring band, lugs, hardware and instructions. Shpg. wt. 8 oz.

No. 3M133. Retail \$3.82. Each \$2.53; lots 4.....\$2.37

2¼" RUBBER MOUNTING RINGS FOR NEMA 48 FRAME MOTORS



Replaces 2½" rings on NEMA 48 frame shaded pole and permanent split capacitor motors where 2¼" rings are required. Wt. 1 oz. Use on motors listed at right:

3M008	3M118	3M217	3M285	3M317
3M009	3M134	3M221	3M286	3M375
3M016	3M142	3M222	3M287	3M376
3M017	3M166	3M224	3M288	3M377
3M048	3M167	3M226	3M302	3M378
3M064	3M168	3M227	3M309	
3M065	3M169	3M228	3M310	
3M087	3M178	3M229	3M314	

No. 3M143. 2¼" Mounting Rings. Retail \$1.83. Set of 2 Rings, \$1.36; lots 4 sets.....\$1.29

SET OF FOUR 7" THRU-BOLTS FOR NEMA 48 FRAME MOTORS

Cadmium plated thru-bolts with 2¾" long 8-32 thread and hex lock nuts. Use on NEMA 48

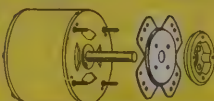
frame blower motors for stud mounting. 3 oz. No. 2C844. Retail \$1.55. Set 92c; lots 4 sets, 83c

ADAPTER for REPLACING DELCO "INSIDE-OUT" MOTORS



Dayton

\$2.81
Lots 4



Fits NEMA 48 Frame Shaded Pole or PSC Motors

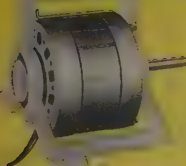
Dayton adapter bracket makes possible replacing the Delco "inside-out" motor with any NEMA 48 frame permanent split capacitor or shaded pole motor. Plated steel construction. Individually packed in plastic bag. Installation instructions included. Dayton brand. Shpg. wt. 1½ lbs.

No. 3M381. Adapter Bracket. Retail \$4.55. Each \$3.03; lots 4.....\$2.81

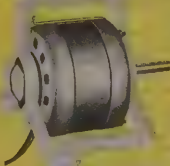
1/6 to 1/4 HP MOTORS for DIRECT DRIVE BLOWERS

1000 or 1050 RPM, 115V, 60 Hz, Shaded Pole. Automatic Reset Thermal Protection

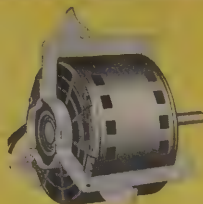
Dayton



No. 3M601



No. 3M392



No. 3M380

\$16.89

No. 3M392
Lots 4
Less Bracket

Dayton direct drive furnace blower motors are designed for quiet, efficient operation. Easily installed in ring centers of adjustable mounting bracket on 90% of today's 7 and 9" wheel, direct drive blowers. Shaded

pole type, open, air-over construction. Continuous duty. Automatic reset thermal protection. All-position sleeve bearings (Nos. 3M380 and 3M601 are Perma-lubricated). Class A insulation. Grounding strap. 20" long, 18 gauge leads. 115V, 60 Hz. Mounting bracket not included. Gray enamel finish. Dayton brand.

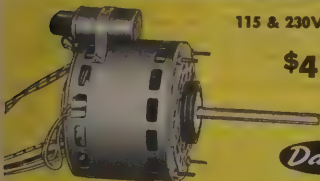
Motor Mounting Bracket Not Included; See Previous Page

HP	RPM	Resilient Rings Dia.	OC	Shaft Dia. Long	Body Dia.	Length Less Shaft	Over-all Length	Full-Load Amps	Rotation†	Stock No.	—Less Bracket— Each	—Lots 4—	Shpg. Wt.
1/6	1050	2 1/2"	4 3/8"	1 1/2" 3"	4 7/8"	3 3/4"	6 3/8"	5.8	CW	3M601	\$18.40	—	8
1/5	1000	2 1/2"	5	1 1/2" 1 7/8"	5	5 7/8"	7 3/4"	6.4	CW	3M030	24.33	\$22.62	11
1/5	1000	2 1/2"	4 1/2"	1 1/2" 1 3/4"	5	4 1/16"	5 15/16"	7.7	CW	3M392	18.17	16.89	9
1/4	1000	2 1/2"	5	2 1/2" 2 1/2"	5	4 9/16"	7 1/16"	8.6	CW	3M393	21.83	20.30	11
1/4	1050	2 1/2"	4 1/16"	1 1/2" 2 1/2"	5 3/8"	3 3/4"	6 1/2"	8.5	CW	3M380*	25.01	23.64	11

(†) Rotation facing motor shaft. (*) NEMA 48 frame.

1/3 HP BLOWER MOTORS

Three Speeds—1050, 1000 and 900 RPM. Thermal Protection. Permanent Split Capacitor Type 1/2" Dia. x 5" L Shaft. Capacitor Included



115 & 230V Models

\$41.28

115V

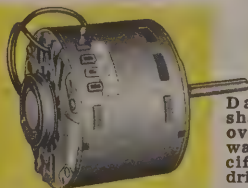
Dayton

For direct-drive furnace blowers and other air-over fan applications where motor speed selection is required in the field to meet static pressure load of each installation. Motors deliver 1/3, 1/4 or 1/6 HP at 1050, 1000 and 900 RPM respectively. Simple, quick-connect, built-in terminal block on motor shell permits speed selection. Open construction. Resilient mounting rings 2 1/2" dia. x 5" on center. Sleeve bearings. NEMA 48 frame. 1/2" dia. x 5" long shaft with 4 1/4" flat. Body dia. 5 5/8"; overall height with capacitor 6 15/16"; length less shaft 5 1/16"; overall length 10 1/16". Automatic reset thermal protection. 50°C rise, 1.0 service factor, Class A insulation, continuous duty. Wired for CW rotation facing shaft; rotation easily reversed by electrical reconnection. Capacitor and mounting hardware included. Gray enamel finish. Dayton brand.

HP	Volts 60 Hz	Full-Load Amps	Stock No.	Retail	With Cap. Each	Shpg. Wt.
1/3	115	4.8	3M295	\$62.18	\$41.28	15
1/3	230	2.7	3M396	62.99	41.77	14

1/4 HP BLOWER MOTOR

Four Speeds—1050, 1000, 955 and 890 RPM Thermal Protection. Shaded Pole Type 1/2" Dia. x 5" L Shaft. Terminal Block on Shell



Dayton

\$31.30

Dayton 4-speed shaded pole, air-over, open motor was designed specifically for direct-drive furnace blowers and other air-over fan applications where motor speed selection is required in the field. Motor delivers 1/4, 1/5, 1/6, or 1/8 HP at 1050, 1000, 955 and 890 RPM respectively. A simple, quick-connect, 4-speed built-in terminal block on shell of motor permits selection and use of speed required for static pressure load of blower on which motor is installed. 115V, 60 Hz. Resilient mounting rings 2 1/2" dia. x 5" on center. Sleeve bearings. NEMA 48 frame. 1/2" dia. x 5" long shaft with 4 1/4" flat. Body dia. 5 1/2"; length less shaft 5 3/8"; overall length 10 3/8". Automatic reset thermal protection. 7.5 full-load amps. 50°C rise, Class A insulation, continuous duty. Clockwise rotation facing shaft. 36" 18 gauge, 2-cond. cord. Gray enamel finish. Dayton brand. Shpg. wt. 15 lbs. No. 3M087. Retail \$47.28. Each \$31.30

Nation-Wide Stocks—Fast Delivery

There are over 130 Grainger sales office-warehouses like the one that serves you. All carry large stocks of most items in this MotorBook. Extensive central back-up stocks assure prompt delivery.

1/6 & 1/3 HP, TOTALLY ENCLOSED, AIR-OVER FAN MOTORS

1100 RPM/1 and 2 Speeds, 115 & 230V, 60 Hz. Permanent Split Capacitor Type

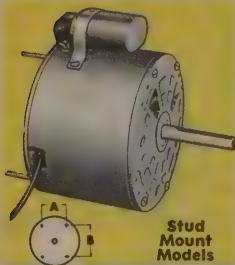
Stud & Resilient Mount Models

Dayton

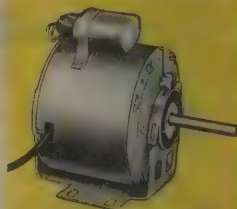
\$36.25

No. 3M041

Widely used on exhaust fans, heaters, blowers and similar air-over motor fan applications. 1/6 & 1/3 HP, 1100 RPM/1 and 2 speeds, 115 & 230V, 60 Hz, permanent split capacitor type. Ball bearings. Length less shaft $4\frac{1}{16}$ " overall length $7\frac{1}{16}$ ". Automatic reset thermal protection. 55°C rise, Class A insulation, continuous duty. Clockwise rotation facing shaft. Totally enclosed endbells. Top-mounted capacitor included. 19" long. No. 18 AWG, SJO leads. Gray finish. Dayton brand.



Stud Mount Models



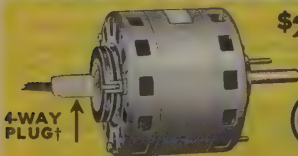
Resilient Mount Models

HP	RPM	Volts 60 Hz	Studs A B	OC— B	Resilient Base Mounting Holes OC	Shaft (†) Dia. Long	Overall Height (*)	Thermal Prot.	Full- Load Amps	Stock No.	With Capacitor Each	Shpg. Wt.
1/6	1100	115	2 1/16"	4 7/16"	—	1/2" 2 3/4"	6 15/16"	Auto	2.6	3M041	\$36.25	10
	1100	115	Resilient	—	1 11/16" x 4 3/4"	2 3/4" 2 3/4"	7 1/4"	Auto	2.6	3M356	38.28	11
	1100/2-Spd.	115	2 1/16"	4 7/16"	—	2 3/4" 2 3/4"	6 15/16"	Auto	2.4	3M174	37.53	12
	1100/2-Spd.	115	Resilient	—	1 11/16" x 4 3/4"	2 3/4" 2 3/4"	7 1/4"	Auto	2.4	3M358	39.66	13
1/3	1100	115	2 1/16"	4 7/16"	—	1/2" 2 3/4"	6 15/16"	Auto	5.5	3M049	41.13	14
	1100	115	Resilient	—	1 11/16" x 4 3/4"	2 3/4" 2 3/4"	7 1/4"	Auto	5.5	3M357	43.23	15
	1100	230	2 1/16"	4 7/16"	—	2 3/4" 2 3/4"	6 15/16"	Auto	2.8	3M173	41.72	14
	1100	230	Resilient	—	1 11/16" x 4 3/4"	2 3/4" 2 3/4"	7 1/4"	Auto	2.8	3M379	43.78	15
	1100/2-Spd.	115	2 1/16"	4 7/16"	—	2 3/4" 2 3/4"	6 15/16"	Auto	4.6	3M175	42.34	15

(*) Body dia. 5 5/8". (†) Flat 2".

1/5 to 1/3 HP, 3 and 4-SPEED BLOWER MOTORS

Shaded Pole Type. Thermal Protection. Permawick Lubricated Sleeve Bearings. 115V, 60 Hz



\$24.39

1/5 HP



Designed for direct-drive furnace blowers and other air-over fan applications where speed must be selected in the field to meet the static pressure load of a system. Speed selection accomplished by re-positioning 4-way connector. 115V, 60 Hz. Open construction. Sleeve bearings. 50°C rise, 1.0 service factor, Class A insulation, continuous duty. CW rotation facing shaft. 36" leads with connector on No. 3M021; others have 30" leads. Gray finish. Westinghouse brand.

HP	RPM	Resilient Mtg. Rings Dia. OC	Shaft Dia. Long	Body Dia.	Lgth. Less Shaft	Full- Load Amps	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
1/5	1050/4-Spd.	2 1/2" 4 9/16"	1/2" 2 1/8"	5"	5"	5.8	319P368	3M021	\$36.15	\$24.39	10
1/4	1050/3-Spd.	2 1/2" 4 3/8"	1/2" 2 1/8"	5 5/8"	3 5/8"	8.5	321P621	3M598†	40.13	27.07	12
1/3	1050/3-Spd.	2 1/2" 4 3/8"	1/2" 2 1/8"	5 5/8"	4 1/8"	10.0	321P622	3M599†	45.23	30.51	14

(*) NEMA 48 Frame. (†) Nos. 3M598 and 3M599 have four 30" leads instead of connector.

1/3 to 3/4 HP 4-SPEED BLOWER MOTORS

Permanent Split Capacitor Type, Thermal Protection

Dayton

\$33.07

1/3 HP, Less
Cap. & Bracket



For direct-drive furnace blowers and other air-over fans. Speed selection (in the field) is made by connections shown on motor wiring instructions. Use with No. 4C031 mounting bracket, listed in Index under Motor Parts & Accessories, and capacitor listed in table below. Open construction. Resilient mounting rings 2 1/2" dia. x 4 7/8" OC (1/3 HP), 5 1/4" OC (1/2 HP) and 6 1/4" OC (3/4 HP). Sleeve bearings. 1/2" dia. x 5" long shaft with 4 1/4" flat. Body dia. 5 5/8". Automatic reset thermal protection. 50°C rise, Class A insulation, continuous duty. Clockwise rotation facing shaft. 36" long, No. 18 AWG leads. Gray finish. Dayton brand.

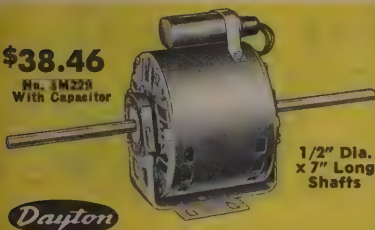
HP at High Speed	RPM	Volts 60 Hz	Shaft Dia. Long	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Less Capacitor and Bracket Retail	Each	Shpg. Wt.	Capacitor Required Stk. No.	Each
1/3	1100/4-Spd.	115	1 1/2" 5"	5 5/8"	10 5/8"	6.5	3M118	\$49.87	\$33.07	14	4X426	\$2.17
1/2	1060/4-Spd.	115	1 1/2" 5"	5 5/8"	10 3/8"	8.0	3M142	57.47	38.11	15	4X427	2.51
3/4	1075/4-Spd.	115	1 1/2" 5"	6 15/16"	11 15/16"	11.0	3M300	70.78	47.11	18	4X447	4.09
3/4	1075/4-Spd.	230	1 1/2" 5"	6 15/16"	11 15/16"	5.5	3M222	70.87	47.13	18	4X429	3.15

AIR CONDITIONER DOUBLE SHAFT BLOWER MOTORS

1/6 to 1/2 HP, 115 and 230V, 60 Hz. Perm. Split Capacitor NEMA 48YZ Frame. Thermal Protection

\$38.46

No. 3M228
With Capacitor



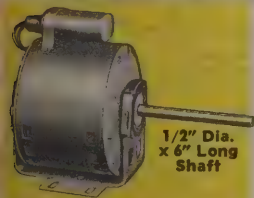
Widely used for new and replacement needs on most standard air conditioning blowers, exhausters, and similar air-over-motor fan applications. Permanent split capacitor type. NEMA YZ frame. Open construction. Resilient mount for quiet operation. All-position sleeve bearings. Double shafts easily cut to size if necessary. 3" shaft height. Automatic reset thermal protection. 50°C rise, Class A insulation, continuous duty. Clockwise rotation facing shaft opposite end with wire leads. Capacitor included. Adjustable venturi mount, length adapter, 3-ring bracket, lug ring adapter and other accessories are available to facilitate mounting motors on all new applications. See Index under Motor Parts & Accessories. Also widely used in the field for replacement jobs. Gray finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Resilient Base Mounting Holes OC	Shaft † Dia. Long	Overall Height (**)	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	With Capacitor Each	Shpg. Wt.
1/6	1100/2-Speed	115	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 9/16"	18 1/16"	3.0	3M016	\$38.66
	1100/3-Speed	115	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 9/16"	18 1/16"	3.0	3M375	39.15
	1100/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 9/16"	18 1/16"	1.5	3M017	38.75
	1100/3-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 9/16"	18 1/16"	1.5	3M376	39.47
	1550/2-Speed	115	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 13/16"	18 13/16"	2.7	3M228	38.46
	1550/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 13/16"	18 13/16"	1.3	3M229	38.98
1/4	1100/2-Speed	115	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 5/16"	19 5/16"	4.4	3M008	39.28
	1100/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 5/16"	19 5/16"	2.2	3M009	39.50
	1550/2-Speed	115	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 13/16"	18 13/16"	3.6	3M064	39.25
	1550/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	4 13/16"	18 13/16"	1.8	3M065	40.13
1/3	1100/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 9/16"	19 9/16"	2.5	3M048	43.36
	1100/3-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 9/16"	19 9/16"	2.5	3M378	44.07
	1550/3-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 9/16"	19 9/16"	1.9	3M377	42.04
1/2	1100/2-Speed	230	1 11/16 x 4 3/4"	1/2"	7"	7 1/8"	5 13/16"	19 13/16"	3.3	3M178	47.04

(†) 6 3/4" flat. (**) Body dia. 5 5/8".

AIR CONDITIONER CONDENSER FAN MOTORS

1/4 to 1/2 HP, 230V, 60 Hz. Perm. Split Capacitor. NEMA 48Z, 48YZ & 56Z Frames. Thermal Protection



Dayton

\$36.24

1/4 HP, 1100 RPM
With Capacitor

Designed to fill needs of air conditioner manufacturers and growing replacement need for air conditioner condenser fan motors. Horsepower range provides interchangeability with most condenser fan motors in current use. 1/4 to 1/2 HP, permanent split capacitor, in NEMA 48Z, 48YZ and 56Z frames. Open construction. Resilient mount for quiet operation. All-position sleeve bearings, except No. 3M295 has ball bearings. 3" shaft height. Automatic reset thermal protection. 50°C rise, Class A insulation, continuous duty. Wired for clockwise rotation facing shaft. Rotation easily reversed: two reversing leads with spade terminals are interchanged in quick-disconnect block on motor shell. Enclosed die-cast endshield on shaft end. Water slinger on shaft. Capacitor included. Gray finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Bearings	Resilient Base Mounting Holes OC	Shaft † Dia. Long	Overall Height (†)	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	With Capacitor Each	Shpg. Wt.
1/4	850	230	Sleeve	2 3/4 x 4 1/4"	1 1/2"	6"	7 1/8"	7 5/8"	13 3/8"	2.1	3M294	\$49.33
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2"	6"	7 1/8"	5 5/8"	11 1/8"	2.2	3M226	36.24
1/3	850	230	Sleeve	2 3/4 x 4 1/4"	1 1/2"	6"	7 1/8"	7 5/8"	13 3/8"	2.7	3M224	52.66
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2"	6"	7 1/8"	5 5/8"	11 1/8"	2.5	3M217	38.50
	1550	230	Sleeve	1 11/16 x 4 3/4"	1 1/2"	6"	7 1/8"	5 9/16"	11 1/8"	1.7	3M265	38.09
1/2	850	230	Ball	3 x 4 7/8"	1 1/2"	6"	8 1/8"	7 3/8"	13 3/8"	3.2	3M295*	64.09
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2"	6"	7 1/8"	5 13/16"	11 13/16"	3.3	3M221	42.91

(*) NEMA 56Z frame. 3 1/2" shaft height. (†) 5 1/4" flat.

(‡) Body dia. 5 5/8" except No. 3M295 is 6 3/8".

All motors on this page recognized by UL under the Motor Component Recognition Program

Quantity Motor Prices for OEM Production — Available from Grainger

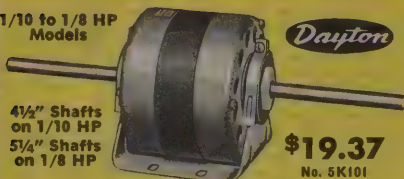
Quantity prices are available to original equipment manufacturers from Grainger on most of the 1,297 electric motor types listed in this MotorBook. Most standard

motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

AIR CONDITIONER DOUBLE SHAFT BLOWER MOTORS

1/10 to 1/4 HP, 1, and 2-Speed, 115 and 230 Volts, 60 Hz. Shaded Pole Type. Thermally Protected

1/10 to 1/8 HP
Models

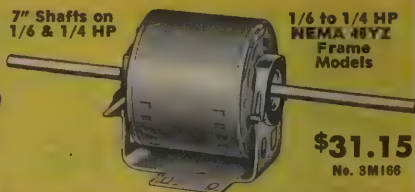


4 1/2" Shafts
on 1/10 HP
5 1/4" Shafts
on 1/8 HP

\$19.37

No. 5K101

7" Shafts on
1/6 & 1/4 HP



1/6 to 1/4 HP
NEMA 48YZ
Frame
Models

\$31.15

No. 3M166

Dependable shaded pole motors for new or replacement use on most standard air conditioner blowers, exhausters, heaters and similar air-over-motor fan applications. Open construction. Resilient mounted for quiet operation. All-position sleeve bearings. NEMA 48YZ frame. Double 1/2" dia. shafts are easily cut to length. Automatic reset thermal protection. 50°C rise, 40°C ambient, Class A insulation, continuous

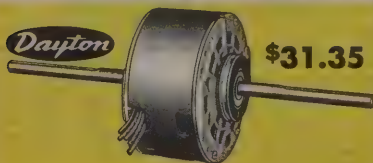
duty. CW rotation facing shaft opposite end with wire leads. 2 5/8" shaft height on 1/10 HP models, 3" shaft height on others. 14" 18/2 leads. Gray finish. Dayton brand.

For adapter kits and accessories that modify NEMA 48 frame (1/6 and 1/4 HP) models for stud, flange or cradle base mounting, see Index under Motor Parts & Accessories.

HP	RPM	Volts 60 Hz	Resilient Base Mounting Holes OC	Shaft Dia. Long	Body Dia. Overall	Overall Height	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Each	Shpg. Wt.
1/10	1000	230	1 11/16 x 3 15/16"	1 1/2" 4 1/2"	5" 5 3/8"	5 3/8"	14 3/8"	1.7	5K101	\$19.37	10	
	1050/2-Spd.	115	1 11/16 x 3 1/2"	1 1/2" 4 1/2"	4 29/32 5 5/16"	4 1/2"	13 1/4"	3.7	3M592	20.17	11	
	1050/2-Spd.	230	1 11/16 x 3 1/2"	1 1/2" 4 1/2"	4 29/32 5 5/16"	4 1/2"	13 1/4"	1.8	3M593	20.55	11	
1/8	1050/2-Spd.	115	1 11/16 x 3 3/4"	1 1/2" 5 1/4"	5 5/8" 5 13/16"	4 1/2"	15	5.0	3M594	22.14	16	
	1050/2-Spd.	230	1 11/16 x 3 3/4"	1 1/2" 5 1/4"	5 5/8" 5 13/16"	4 1/2"	15	2.5	3M595	22.49	16	
1/6	1050/2-Spd.	115	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	5 1/16"	19 1/16"	5.0	3M018	32.72	12	
	1050/2-Spd.	230	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	5 1/16"	19 1/16"	2.5	3M019	33.01	12	
	1550/2-Spd.	115	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	4 23/32"	19 23/32"	4.8	3M166	31.15	11	
	1550/2-Spd.	230	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	4 23/32"	19 23/32"	2.4	3M167	31.69	11	
1/4	1050/2-Spd.	230	1 11/16 x 4 3/4"	1 1/2" 7	5 5/8" 5 13/16"	5 5/16"	19 5/16"	3.7	3M227	35.75	16	
	1550/2-Spd.	115	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	5 5/16"	19 5/16"	6.8	3M168	33.70	13	
	1550/2-Spd.	230	1 11/16 x 4 3/4"	1 1/2" 7	4 29/32 5 29/64"	5 5/16"	19 5/16"	3.4	3M169	34.09	13	

AIR CONDITIONER and HEATING BLOWER MOTOR

1/15 HP, 1050 RPM/3-Speeds, 115V, 6" Shafts. Permanent-Split Capacitor. Thermal Protection



\$31.35

For blowers on heating/air conditioning console (fan coil) units—for example Nesbitt, U. S. Radiator and American Standard. 1/15 HP, 1050 RPM/3-speeds, 115V, 60 Hz. Open construction. Round body with 2 1/2" resilient rings for mounting on existing cradle-type base. If 2 1/4" rings are required, use No. 3M143 rings. For base mounting, ring center distance is 3 7/8". All-angle sleeve bearings. Double 1/2" dia. x 6" long shafts with 4" flat. Body dia. 5 5/8"; length less shaft 4 5/16"; overall length 16 5/16". 1.0 full-load amps. Automatic reset thermal protection. 50°C rise, Class A insulation. Continuous duty for air-over fan applications. CW rotation facing shaft opposite end with wire leads; turn motor end-for-end to reverse rotation. Six leads, 24" long of No. 18 AWG; 90°C neoprene insulation. Capacitor not included—see listing at left. Shpg. wt. 9 lbs. Dayton brand.

No. 3M134. Air Conditioner and Heating Blower Motor. Retail \$47.28. Each **\$31.35**

CAPACITORS FOR ABOVE MOTOR

Size	Applications	Load	Stock No.	Each	Wt.
370 V	Blower				
3 Mfd.	Single	Light	4X425	\$1.98	5 oz.
4 Mfd.	Double	Normal	4X426	2.17	7 oz.
5 Mfd.	Triple	Heavy	4X427	2.51	8 oz.

All motors on this page are recognized by UL under the Motor Component Recognition Program

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

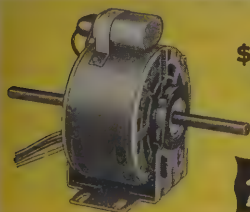
Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

DOERR AIR CONDITIONER BLOWER MOTORS

1/6 to 1/2 HP, 1100/950 RPM, 230V, 60 Hz. Perm. Split Capacitor. NEMA 48 Frame. Thermal Protection



\$38.78

No. 3M302,
With
Capacitor

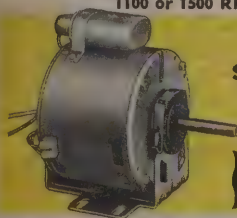
DOERR

Reliable Doerr designed permanent split capacitor motors for use on air-conditioning blowers, exhausters, and similar air-over-motor fan applications. 1/6 to 1/2 HP, permanent split capacitor, 1100/950 RPM, 230V, 60 Hz, continuous duty. All angle sleeve bearings, resilient mount. Open, dripproof construction. 50°C rise, 1.0 service factor, class A insulation. Automatic reset thermal protection. NEMA 48 frame, double 1/2" dia. x 7" long shaft with flat. Mtg. holes 4 3/4" x 1 1/16". Capacitor included. Gray finish. Adjustable venturi mount, length adapter, 3-ring bracket, lug ring adapter and accessories are available to facilitate mounting of these motors on all new applications and are widely used in the field for replacement jobs—see Index under Motor Parts & Accessories. Recognized by UL under the Motor Component Recognition Program. Doerr brand.

HP	RPM	Volts 60 Hz	Motor Length Overall	Length Less Shafts	Full-Load Amps	Stock No.	With Capacitor Retail	Each	Shpg. Wt.
1/6	1100/950	230	18 1/16"	4 1/16"	1.4	3M302	\$58.37	\$38.78	12
1/3	1100/950	230	19 1/16"	5 1/16"	2.5	3M309	65.30	43.41	17
1/2	1100/950	230	19 1/16"	5 1/16"	3.3	3M310	70.54	46.89	20

DOERR AIR CONDITIONER CONDENSER FAN MOTORS

1/3 & 1/2 HP, 230V, 60 Hz. Perm. Split Capacitor Type, NEMA 48 Frame. Thermal Protection
1100 or 1550 RPM Sleeve or Ball Bearing Models. Electrically Reversible



\$38.25

No. 3M314,
With
Capacitor

DOERR

Specifically designed to fill the needs of air conditioner manufacturers and growing replacement market. This design is adaptable to both the conventional front and updraft exhaust units. 1/3 and 1/2 HP, permanent split capacitor types, 1100 & 1550 RPM, 230V, 60 Hz, continuous duty. All angle sleeve and ball bearings, resilient mount. Enclosed, die-cast end shield on shaft end. 50°C rise, 1.0 service factor, Class A insulation. Automatic reset thermal protection. NEMA 48 frame, 1/2" dia. x 6" long shaft with flat. Mounting holes 4 3/4" x 1 1/16". Electrically reversible. Capacitor included. Gray finish. Recognized by UL under the Motor Component Recognition Program. Doerr brand.

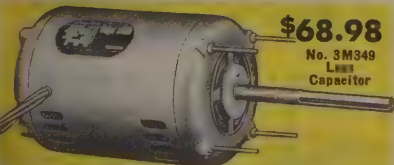
HP	RPM	Volts 60 Hz	Bearings	Motor Length Overall	Length Less Shaft	Full-Load Amps	Stock No.	With Capacitor Retail	Each	Shpg. Wt.
1/3	1100	230	Slv	11 1/16"	6 1/16"	2.4	3M314	\$57.57	\$38.25	16
1/3	1100	230	Ball	11 1/16"	6	2.4	3M266	63.64	42.29	16
1/3	1550	230	Ball	11 1/16"	6	2.3	3M267	63.49	42.19	14
1/2	1100	230	Slv	11 1/16"	6 1/16"	3.2	3M317	64.31	42.72	18
1/2	1100	230	Ball	11 1/16"	6 1/16"	3.2	3M268	70.38	46.80	18

AIR CONDITIONER CONDENSER FAN MOTORS

1/2 to 1 HP, 208/230V, 60 Hz. Ball Bearings. NEMA 56Z Frame. Thermal Protection
825 or 1125 RPM. Permanent Split Capacitor Type. Electrically Reversible

Dayton

Designed to meet needs of air conditioner manufacturers and growing replacement market for air conditioner condenser fan motors on 5 ton and larger air conditioners. Horsepower, RPM, and physical characteristics allow for interchangeability with original equipment motors used on many Trane, Chrysler, Carrier, York, American Standard, etc., air conditioning condensers. 1/2 to 1 HP, permanent split capacitor, open, air-over fan type with endshield on shaft end enclosed. 825 to 1125 RPM, 208/230V, 60 Hz. Cadmium-plated mounting studs are 1 1/2" long, 5 1/16" OC. Ball bearings. NEMA 56Z frame, 5/8" dia. x 6" long zinc-coated shaft with water slinger plus flat and keyway. Flat and keyway are 90° apart. Automatic reset thermal protection. 50°C rise, 1.0 service factor, Class B insulation, continuous duty. Wired for CW rotation facing shaft. Rotation easily reversed by electrical reconnection. 50" long leads. Gray finish. Dayton brand.



\$68.98

No. 3M349
Less
Capacitor

HP	RPM	Studs OC	Body Dia.	Length Less Shaft	Overall Length	Full-Load Amps at 230V	Stock No.	Less Capacitor Retail	Each	Shpg. Wt.	Capacitor Req'd. Stock No.	Each
1/2	825	5 1/16"	6 3/8"	10 1/2"	16 1/2"	3.4	3M347	\$105.17	\$78.59	28	4X447	\$4.09
3/4	825	5 1/16"	6 3/8"	11	17	5.0	3M348	115.75	86.67	34	4X448	5.06
3/4	1125	5 1/16"	6 3/8"	10	16	4.0	3M349	93.04	68.98	26	4X448	5.06
1	1125	5 1/16"	6 3/8"	11	17	5.0	3M350	102.47	76.54	32	4X449	5.72

SEE WARRANTY INFORMATION ON PAGE 684

GE 11-FRAME UNIT-BEARING FAN MOTORS

1/40 and 1/30 HP, 1550 RPM, 115 and 208/230V, 60 Hz. Air-Over, Fan Duty. Thermal Protection



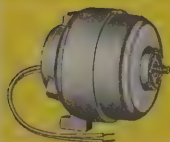
Replace a large percentage of all existing KSP11 type GE unit bearing motors and used on many new applications—room air conditioners, fans, unit heaters, air coolers, condenser units, and other air over motor applications.

115 or 208/230V models. 60 Hz. Automatic reset thermal protection. Permanently lubricated, all-angle operation. Motors have 12" long, 18/2 leads, stripped $1\frac{1}{16}$ ". Round body with resilient rings for cradle base and four tapped holes for end mounting on shaft end. 4" dia. black body, 2" OC 8-32 tapped holes and $\frac{5}{16}$ " dia. x $1\frac{1}{4}$ " long shaft with flat. Recognized by UL under the Motor Component Recognition Program. CSA approved. GE brand.

HP	RPM	Volts 60 Hz	Length Less Shaft	COUNTERCLOCKWISE ROTATION			CLOCKWISE ROTATION			Shpg. Wt.
				Facing end opposite shaft Stock No.	GE Model KSP11—	Each	Facing end opposite shaft Stock No.	GE Model KSP11—	Each	
1/40	1550	115	$4\frac{13}{16}$	3M112	DG903	\$21.05	3M110	DG901	\$21.05	3
	1550	208/230	$4\frac{13}{16}$	3M113	DG904	21.58	3M111	DG902	21.58	3
1/30	1550	115	$5\frac{1}{16}$	3M116	FG953	22.72	3M114	FG951	22.72	4
	1550	208/230	$5\frac{1}{16}$	3M117	FG954	23.27	3M115	FG952	23.27	4

GE 51 FRAME UNIT-BEARING FAN MOTORS

1/350 to 1/47 HP. 1550 & 1000 RPM. 115V, 60 Hz. Totally Enclosed, Pre-Oiled



No. 3M394
\$9.30

Used for hundreds of fan applications, refrigeration, evaporative coolers, etc. using 8, 9 or 10" blades. Totally enclosed, all-angle operation. Unit bearing runs years without re-oiling. 1550 and 1000 RPM, 115 and 230V, 60 Hz. 2, $2\frac{1}{2}$, 4 & 6 watt models are impedance protected, and have three No. 8-36 tapped mounting holes, $2\frac{1}{2}$ " OC. 9 and 16 watt models have thermal protection and same mounting holes as 4 and 6 watt plus rigid cast feet for mounting. 12" leads on all except 16 watt models, which have 24" leads. Cast iron housing, black finish. Recognized by UL under the Motor Component Recognition Program. GE brand.

HP	Volts Rated 60 Hz Watts	GE Type	Shaft Long	COUNTERCLOCKWISE ROTATION			CLOCKWISE ROTATION			Shpg. Wt.
				Facing end opposite shaft. (Blows air away from motor) Stock No.	GE 5KSP51	Each	Facing end opposite shaft. (Pulls air toward motor) Stock No.	GE 5KSP51	Each	
1/350	115 2	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	—	—	—	3M394	AZL826	\$9.30	2
1/300*	115 2.5	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	—	—	—	3M472	AL611	10.89	2
1/125	115 4	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	3M275	AL513	\$10.00	3M274	AL511	10.00	2
1/100	115 6	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	3M269	CL502	11.21	3M270	CL501	11.21	3
1/60	115 9	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	3M284	ECL553T	11.48	3M285	ECL551T	11.48	3
1/60	230 9	$\frac{1}{4}$ -20 Thread	$2\frac{5}{16}$ "	3M283	ECL554T	12.11	3M286	ECL552T	12.11	3
1/47	115 16	$\frac{1}{4}$ -20 Thread	1.32	3M475	GL583	14.19	3M473	GL581	14.19	4
1/47	230 16	$\frac{1}{4}$ -20 Thread	1.32	3M476	GL584	14.89	3M474	GL582	14.89	4

(*) 1000 RPM. 4-pole design for replacing 6-pole motors.



7, 8, 9 & 10" FAN BLADES FOR GE UNIT BEARING MOTORS

Dayton 5-wing fan blades for use on threaded shaft of GE model 5KSP51 unit bearing and similar motors.

Dia.	At 1500 RPM CFM	HP Req'd.	Stock No.	Retail	Each	Lots 10, Ea.	Shpg. Wt.
7"	300	1/125	4C474	\$0.95	\$0.62	\$0.57	2 oz.
8"	400	1/125	4C476	1.20	.78	.71	2 oz.
9"	500	1/100	4C478	1.40	.92	.84	4 oz.
10"	700	1/60	4C480	1.60	1.06	.96	4 oz.

MOTOR BASE

\$1.53 Stud-mounts up to 1/10 HP, shaded pole motors on slotted plate. For GE unit bearing motors, etc. $4\frac{3}{8}$ " dia. and $5\frac{3}{8}$ " maximum shaft height. Double-slotted feet. Wt. 12 oz.
No. 1C897. Retail \$2.55. Each \$1.70; lots 4 \$1.53



1/4" DIA. SHAFT ADAPTER

For GE Unit Bearing, 51 Frame Motors



Provides $\frac{1}{4}$ " dia. x 1" L shaft for using standard fan blade on threaded shaft of GE 51 frame unit bearing motors. Hollow head set screw secures adapter on threaded shaft. Shpg. wt. 1 oz.
No. 4X098. Retail \$1.05. Each \$0.58; lots 10, \$0.52

REPLACEMENT GUIDE FOR ORIGINAL EQUIPMENT GE FAN & BLOWER MOTORS
Lists Grainger Stock No. of current GE replacement for original equipment motors
REQUEST FORM 5S1254 FROM YOUR GRAINGER SALESMAN OR COUNTERMAN

GE REPLACEMENTS FOR GE 21-FRAME FAN MOTORS

GE 29 Frame to Replace Many Existing GE KSP21 Type Unit Bearing Motors. Shaded Pole Type
 1/20, 1/15 & 1/10 HP, 1550 & 1050 RPM, 115, 115/230 & 208/230V, 50/60 Hz. Air-Over Fan Duty



Replace a large percentage of all existing 5KSP21 type GE unit bearing motors and used on many new applications—room air conditioners, fans, unit heaters, air coolers, condenser units, and other air-over motor use.

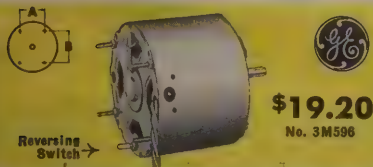
Shaded pole type, 115, 115/230V or 208/230V models, 50/60 Hz. Automatic reset thermal protection. Sleeve bearings, all-angle operation.

Motors have 12" long, 18/2 leads, 12" ground wire. Round body with resilient rings for cradle base and four tapped holes for end mounting on shaft end. 5" dia. gray body, 2.474" OC 10-32 tapped holes and 3/8" dia. x 1 1/2" long shaft with flat. Order No. 6X452 adapter bushing listed below if 1/2" shaft dia. is required. CSA approved. GE brand.

HP	RPM*	Volts 50/60 Hz	Length Less Shaft	COUNTERCLOCKWISE ROTATION			CLOCKWISE ROTATION			Shpg. Wt.
				Facing end opposite shaft Stock No.	GE Model 5KSP29-	Each	Facing end opposite shaft Stock No.	GE Model 5KSP29-	Each	
1/20	1550	115	5 1/2	3M456	BG3003	\$24.16	3M463	BG3001	\$24.16	5
	1550	208/230	5 1/2	3M457	BG3004	24.63	3M464	BG3002	24.63	5
1/15	1550	115	5 3/4	3M458	DG3103	26.02	3M465	DG3101	26.02	6
	1550	208/230	5 3/4	3M459	DG3104	24.85	3M470	DG3102	24.85	6
1/10	1050	115	6	3M460	FG3253	29.83	—	—	—	7
	1050	115/230	6	—	—	—	3M466	FG3255	30.36	7
	1050	208/230	6	3M624	FG3254T	30.32	—	—	—	8
	1550	115	6	3M461	FG3203	25.27	3M471	FG3201	25.27	7
	1550	208/230	6	3M462	FG3204	27.05	3M467	FG3202	27.43	8
	1550	208/230	6	—	—	—	—	—	—	8

(* When operated on 60 Hz current. RPM approximately 5/6 of this figure when operated on 50 Hz.

GE 29-FRAME ELECTRICALLY REVERSIBLE MOTORS



1/15 HP, 1050 RPM, 2-Speed. Shaded Pole Type

For continuous duty, air-over fan applications, especially window fans with 20" blades. Reversing switch on endshield opposite shaft. Automatic reset thermal overload protection. Class A insulation. Sleeve bearings. Four 1/2" L mounting studs. All angle mounting. NEMA 42 frame. No. 3M597 has 9 ft. cord with in-line high-low switch. Order No. 6X452 adapter bushing listed below if 1/2" shaft diameter is required. Gray finish. CSA approved. GE brand.

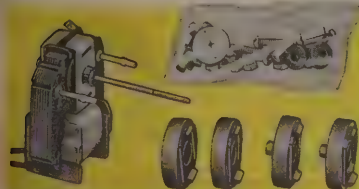
HP	RPM	Volts Full-Load 60 Hz.	Amps	Body Dia.	Length	Shaft Dia. x L	Flat	Studs OC A B	Leads	GE Model KSR29DK-	Stock No.	Each	Shpg. Wt.
1/15	1050/2 Spd.	115	2.8	5"	3 1/2"	3/8" 1 1/2"	1"	3 3/8" 3 3/8"	20"	143T	3M596	\$19.20	6
1/15	1050/2 Spd.	115	2.8	5"	3 1/2"	3/8" 1 1/2"	1"	3 3/8" 3 3/8"	108	144T	3M597	25.74	9 1/2

3/8" ID x 1/2" OD ADAPTER BUSHING. For adapting 3/8" shaft of above motors to 1/2" dia.

Has hole for set screw. 1 1/4" long. Wt. 2 oz.
 No. 6X452. Retail 72c. Each 48c; lots 5.....45c

REFRIGERATOR & FREEZER FAN REPLACEMENT GE MOTORS

1/125 HP, C-Frame. Single Coil Shaded Pole Type. 3000 RPM, 115V, 60 Hz Impedance Protected



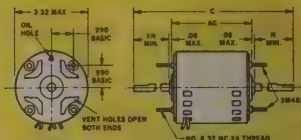
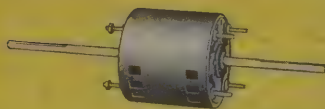
\$7.74 General Electric 33-frame (C-frame) motors with adapter kits for replacing original equipment GE evaporator fan motors in domestic self-defrosting refrigerators and freezers. Models listed below replace over 90 original equipment motor types. Replacement guide included with each motor lists models it replaces, tells how to modify motor to fit using clip-on oil covers and mounting hardware furnished. Fan blade not included. 1/125 HP, shaded pole, 3000 RPM, 115V, 60 Hz, 0.35 full-load amps, continuous duty. Electrically enclosed. Impedance protected. Two 14" leads. CSA approved. General Electric brand.

HP	Shaft Dia.	Long	Full-Load Amps	CLOCKWISE ROTATION			COUNTERCLOCKWISE ROTATION			Shpg. Wt.
				As seen facing end opposite shaft (Blows air away from motor)	Stock No.	GE Model 5KSB33-	As seen facing end opposite shaft (Blows air toward motor)	Stock No.	GE Model 5KSB33-	
1/125	1/8"	2 1/8"	0.35		3M351	ASE988		3M352	ASE987	1
1/125	1/8"	2 3/8"	0.35		3M353	ASE986		3M354	ASE985	1
						\$7.74			\$7.74	
						7.74			7.74	

All motors on this page recognized by UL under the Motor Component Recognition Program.

1/15 & 1/10 HP, 115V, 60 Hz. Permanent Split Capacitor. Automatic-Reset Thermal Protection

1/15 HP.
Low
Capacitor

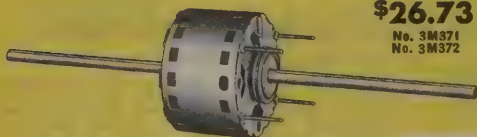


end. 12" leads. No. 3M488 has 4 mounting studs on each end; No. 3M489 has 4 mounting studs on lead end, none on other end. Recognized by UL under the Motor Component Recognition Program. CSA approved. Gray finish. General Electric brand.

HP	RPM	Volts 60 Hz	—Variable Dimensions—				Shaft Dia.	Full- Load Amps	GE Model 5KPM59—	Stock No.	Less Capacitor Each	Shpg. Wt.	Capacitor Required	
			C	AG	XN	N							Stk. No.	Each
1/15	1600/3-Speed	115	12.37"	3.66"	4.83"	3.72"	5/16"	1.0	FSK104T	3M488	\$18.87	4	4X426	\$2.17
1/10	1600/3-Speed	115	12.37	4.16	5.31	2.74	5/16"	2.0	KSK105T	3M489	19.75	5	4X426	2.17

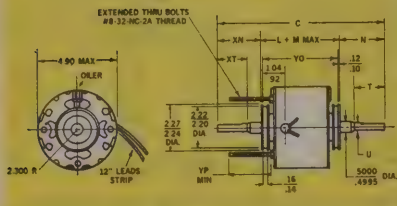
1/15 to 1/8 HP, Shaded Pole Type. 115 & 230V, 60 Hz. Automatic-Reset Thermal Protection

No. 3M371
No. 3M372



**ADAPTER KIT INCLUDED
WITH EACH MOTOR**

Motors are rated 1/15 to 1/8 HP, 1000/4-speed, 550/4-speed or 1550/3-speed, 115 and 230V, 60 Hz. Resilient ring mount. Sleeve bearings. Class A insulation. Continuous/air-over duty. Open construction. Automatic reset thermal protection. Double-shaft, 12" leads. CCW rotation as seen from lead end. Recognized by UL under the Motor Component Recognition Program. CSA approved. General Electric brand.



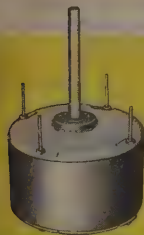
Stock No.	GE Model	C	L & M	U	N	XN	T	XT	YO	YP
3M369	KSP29BK9001T	25.50	4.34	.500	10.50	10.57	—	—	4.06 to 5.50	1.50
3M370	KSP29BK9007T	16.25	4.09	.375	6.00	6.07	6.00	6.07	3.81 to 5.50	1.75
3M371	KSP29BK9008T	16.50	4.34	.375	6.00	6.07	6.00	6.07	4.06 to 5.50	1.50
3M372	KSP29BK9010T	18.00	4.34	.500	6.75	6.82	—	—	4.06 to 5.50	1.50
3M373	KSP29BK9015T	25.50	4.34	.500	10.50	10.57	—	—	4.06 to 5.50	1.50
3M374	KSP29FK9016T	20.50	4.34	.375	8.00	8.07	8.00	8.07	4.06 to 5.50	1.50

HP	RPM	Volts 60 Hz	Full-Load Amps	GE Model	Stock No.	Each	Shpg. Wt.
1/15	1000/4 Speed	115	2.7	KSP29BK9001T	3M369	\$28.43	8
	1000/4 Speed	230	1.35	KSP29BK9015T	3M373	28.99	8½
1/12	1500/3 Speed	115	4.05	KSP29BK9008T	3M371	26.73	7
	1500/3 Speed	115	4.05	KSP29BK9010T	3M372	26.73	7
1/8	1500/3 Speed	115	5.50	KSP29FK9016T	3M374	28.20	10
	1500/4 Speed	115	6.40	KSP29BK9007T	3M370	27.03	8

All motors on this page recognized by UL under the Motor Component Recognition Program

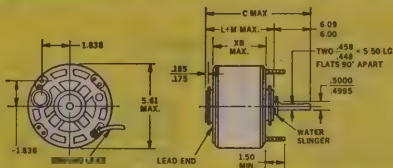
GE 39-FRAME OUTDOOR CONDENSER FAN MOTORS

**1/4 to 3/4 HP, 230V, 60 Hz. Automatic Reset Thermal Protection
Permanent Split Capacitor Type. Water Slinger on Shaft End**



\$35.42

No. 3M477



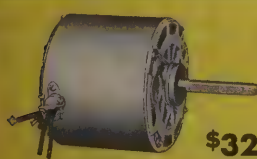
General Electric permanent split capacitor motors designed for replacement use on central air conditioning outdoor condenser fans. Also suited for other vertical, shaft-up and horizontal air moving applications where motor is directly in air stream of fan (air-over). 1/4 to 3/4 HP.

230V, 60 Hz, 50°C rise, continuous duty, air-over. Endshield opposite shaft is open; no vent openings in shell or shaft-end endshield. Water slinger on shaft. 26" leads extended from end opposite shaft. Rotation easily reversed by electrical reconnection. General Electric brand.

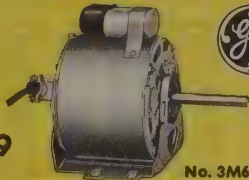
HP	RPM	Volts 60 Hz	Bearings	Full-Load Amps	Variable Dimensions			GE Model 5KCP39—	Stock No.	Less Capacitor Each	Shpg. Wt.	Capacitor Required	
					C	L + M	XB					Stock No.	Each
1/4	1075/750	230	Sleeve	2.0	10.00	4.81	3.98	FGP769T	3M477	\$35.42	11	4X427	\$2.51
	1075/750	230	Ball	2.0	10.88	4.81	3.98	FGCI24T	3M478	39.93	11	4X427	2.51
1/3	825	230	Ball	2.6	12.9	6.81	5.98	PGC070T	3M616	53.47	18	4X447	4.09
	1075/750	230	Sleeve	3.3	11.63	5.56	4.73	KGA770T	3M479	37.68	14	4X427	2.51
	1075/750	230	Ball	3.3	11.63	5.56	4.73	KGC003T	3M480	42.19	14	4X427	2.51
1/2	825	230	Ball	3.7	12.13	6.06	5.23	PGC071T	3M617	64.18	18	4X447	4.09
	1075/750	230	Sleeve	5.0	12.38	6.31	5.48	PGA771T	3M481	42.07	18	4X427	2.51
	1075/750	230	Ball	5.0	12.38	6.31	5.48	PGC004T	3M482	46.59	18	4X427	2.51
3/4	1075/2Spd.	230	Ball	4.6	12.38	6.31	5.48	PGC199T	3M618	53.47	18	4X448	5.06

GE 39-FRAME OEM REPLACEMENT MOTORS

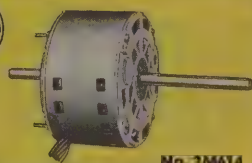
1/8 to 1/2 HP, Perm. Split Capacitor and Shaded Pole Types. Automatic-Reset Thermal Protection



No. 3M611



No. 3M615



No. 3M612

No. 3M614

Direct replacements for special design General Electric motors used in quantity by original equipment manufacturers of refrigeration and air conditioning equipment. All motors listed have automatic-reset thermal protection. All

have Class A insulation except No. 3M610 for Carrier, which has Class B. All are continuous duty, air-over, 40°C ambient, 50°C rise. Listed by UL under the Motor Component Recognition Program. CSA approved. GE brand.

Equipment Manufacturer	HP	RPM	Volts 60 Hz	GE Model (Same as used by OEM on original motors)	Stock No.	Less Capacitor Each	Shpg. Wt.	Capacitor Required	
								Stock No.	Each
Carrier Corp.	1/2	1075	208-230	KCP39PGC138T	3M610	\$48.67	19	4X429	\$3.15
Copeland	1/3	825	230	KCP39PGC092S	3M611	47.60	18	12.5 Mfd., 370V	
C. V. Hill	1/3	1625	208-230	KCP39PGK1369S	3M612	37.68	16	Cap. Included	
Lennox	1/3	825	230	KCP39PG9701S	3M613	47.89	18	4X426	2.17
Fedders	1/4	1075/3 Spd.	208-230	KCP39DGA931T	3M614	33.50	10	4X427	2.51
Hussman	1/8	1550	230	KSP39DGA4220S	3M615	32.19	10	Not Required	

Equipment Manufacturer	GE Model (Same as used by OEM on original motors)	Stock No.	Type	Encl.	Mounting	Bearings	1/2" Dia. Opp. End	Shaft Lead	Shaft Lead Amps	Full-Load Amps	Rotation(*)
Carrier Corp.	KCP39PGC138T	3M610	PSC	TE(**)	Band	Ball	3 1/4" (#)	—	4.0	CCW	
Copeland	KCP39PGC092S	3M611	PSC	Open	Band	Ball	3 1/2"	—	2.4	CW	
C. V. Hill	KCP39KG1369S	3M612	PSC	Open	Resil. Base	Sleeve	3 1/2"	—	2.9	CW	
Lennox	KCP39PG9701S	3M613	PSC	Open	Resil. Rings	Sleeve	3"	—	3.2	CCW	
Fedders	KCP39DGA931T	3M614	PSC	Open	Clamp Screw	Sleeve	4 3/4"	2 1/2"	2.0	CCW	
Hussman	KSP39DG4220S	3M615	SP	Open	Resil. Base	Sleeve	1 1/2"	—	2.1	CW	

(*) Viewed from lead end. (**) Lead end open. (#) 6" plastic water slinger included.

SEE WARRANTY INFORMATION ON PAGE 684

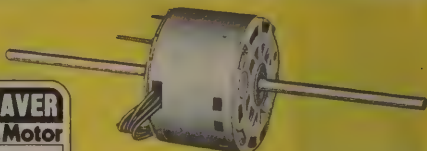
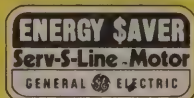
1/6 TO 1/3 HP GE ENERGY \$AVER MOTORS

High-Efficiency Design Uses Less Electricity Than Conventional PSC or Shaded Pole Motors
1625 & 1075 RPM/3-Speed, 230V, 60 Hz Permanent Split Capacitor. Auto.-Reset Thermal Protection

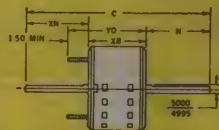
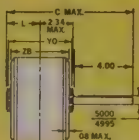


\$36.82

No. 3M515



Capacitor and Mounting Kit Included with Motor



New high-efficiency design reduces electric power usage. GE Energy Saver motors are up to 15% more efficient than conventional permanent split capacitor motors, and as much as 40% more efficient than shaded pole motors.

Used in furnaces, room air conditioners, and central air conditioning to replace lower efficiency shaded pole and permanent split capacitor motors.

1/6 to 1/3 HP, 230V, 60 Hz. Continuous duty, all-over. 40° C ambient, 50° C rise. Three speed windings. CCW rotation, as viewed from lead

end, 14-inch numbered leads with 12-inch ground lead. All-angle operation. Single shaft models have 2 1/4-inch resilient ring on each end. Extended thru-bolts 1 1/2" long on double shaft motors. Automatic-reset thermal protection. Mounting holes in shell for capacitor bracket; capacitor and mounting kit included with motor.

Energy Saver motors are interchangeable with General Electric's standard replacement motor line and utilize the same accessories.

Listed by UL under the Motor Component Recognition Program. CSA approved. GE brand.

DOUBLE SHAFT ENERGY SAVER PERMANENT SPLIT CAPACITOR MOTORS

HP	RPM #	Volts 60 Hz	C	—Variable Dimensions—Inches—	YO	N	XN	Full- Load Amps	GE Model 5KCP39-	Stock No.	Each	Shpg. Wt.
1/6	1625/3-Spd.	230	20.00	3.73	4.42/5.67	7.50	8.70	1.0	CGD250T	3M509	\$39.14	12
1/4	1625/3-Spd.	230	19.00	4.23	4.91/6.16	7.00	7.70	1.70	FGD251T	3M510	40.50	14
1/3	1625/3-Spd.	230	20.00	4.73	5.42/6.69	7.00	8.20	2.50	HGD252T	3M511	41.85	15
1/6	1075/3-Spd.	230	20.00	3.73	4.42/5.67	7.50	8.70	1.10	EGD253T	3M512	39.82	12
1/4	1075/3-Spd.	230	18.00	3.98	4.67/5.79	7.50	6.45	1.80	GGD254T	3M513	42.07	14
1/3	1075/3-Spd.	230	20.00	4.73	5.35/6.60	7.75	7.45	2.7	KGD255T	3M514	44.33	16

SINGLE SHAFT ENERGY SAVER PERMANENT SPLIT CAPACITOR MOTORS

HP	RPM #	Volts 60 Hz	—Variable Dimensions—Inches—				Full- Load Amps	GE Model 5KCP39-	Stock No.	Each	Shpg. Wt.
			C	L	ZB	YO					
1/6	1075/3-Spd.	230	8.64	2.25	3.73	4.23/4.39	1.1	EGD256T	3M515	\$36.82	11
1/4	1075/3-Spd.	230	8.83	2.50	3.98	4.48/4.64	1.8	GGD257T	3M516	38.58	13
1/3	1075/3-Spd.	230	9.64	3.25	4.73	5.39/5.55	2.7	KGD258T	3M517	40.83	15

(#) Actual speeds depend on fan load.

LENGTH ADAPTER KIT FOR DOUBLE-SHAFT MOTORS

Fits Energy Saver and Other GE 39 Frame Motors

Includes two resilient mounting rings, four split rings and necessary bolts, nuts and lock washers for use when additional motor length is required to fit double shaft motor on existing mounting base. Shpg. wt. 10 oz.

No. 3M518. Length Adapter Kit. Each \$3.95; lots 10.....\$3.76



Thousands of Dealers and Service Men
Depend On Grainger Supply Service
For Pick-ups and Same-Day Shipping



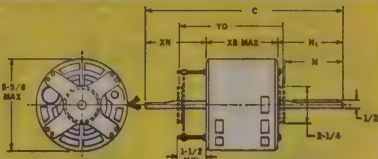
GE 39-FRAME DOUBLE SHAFT 3-SPEED BLOWER MOTORS

1/10 to 3/4 HP. Permanent Split Capacitor, Shaded Pole Types. Automatic-Reset Thermal Protection



\$33.61

No. 3M483



General Electric 1/10 to 3/4 double shaft, 3-speed permanent split capacitor and shaded pole motors for use in air conditioning and furnace blowers, exhausters and similar air-over applications. Widely used for new and replacement requirements. Illustrations below show motor configurations and mounting accessories supplied with each configuration. Use perma-

nent split capacitor models with No. 3M451 capacitor mounting kit, listed below PSC motors, capacitors listed in table. 115 or 230V, 60 Hz. Open, air-over construction. Continuous duty, 40°C ambient, 50°C rise. Class A Insulation. All-angle sleeve bearings. Automatic-reset thermal protection. Counterclockwise rotation as viewed facing lead end. 12" leads. GE brand.

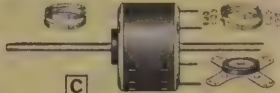
MOTOR CONFIGURATIONS AND MOUNTING ACCESSORIES SUPPLIED



A Hub-less end shields, extended thru-bolts.



B Resilient ring on each end, extended thru-bolts. Base included.



C Resilient ring on one end, extended thru-bolts on other. One length adaptor and four split-rings supplied.

3-SPEED PERMANENT SPLIT CAPACITOR MOTORS

HP	RPM	Volts 60 Hz	Fig.	C	—Variable Dimensions—					Full- Load Amps	GE Model 5KCP39—	Stock No.	Less Capacitor Each	Shpg. Wt.	Capacitor Required Stk.No. Each
					XB	YO	N	N ₁	XN						
1/8	1075/3-Spd.	115	C	20"	3.5"	4.19/5.44"	—	7.5"	9.0"	2.5	CG5824T	3M447	\$36.10	11	4X427 2.51
1/8	1075/3-Spd.	115	C	20	3.75	4.44/5.69	—	7.5	8.7	3.1	DG5826T	3M448	37.22	12	4X427 2.51
	1075/3-Spd.	230	C	20	3.75	4.44/5.69	—	7.5	8.7	1.3	CG5827T	3M621	37.90	10	4X427 2.51
1/4	1075/3-Spd.	230	C	18	4.00	4.69/5.81	—	7.5	6.45	2.0	FG5829T	3M622	40.16	12	4X427 2.51
1/3	1075/3-Spd.	115	C	18	4.75	5.37/6.62	6.5	—	6.3	6.8	MG5830T	3M436	41.74	16	4X427 2.51
	1075/3-Spd.	230	C	20	4.75	5.37/6.62	6.5	—	6.3	3.3	KG5831T	3M623	42.41	15	4X427 2.51
	1625/3-Spd.	230	C	20	4.75	5.44/6.69	—	7.0	8.2	2.8	HG9051T	3M620	39.93	14	4X427 2.51
1/2	1075/3-Spd.	230	C	16	5.25	5.75	5.0	—	4.85	4.6	PG5082T	3M428	46.98	19	4X429 3.15
	1625/3-Spd.	230	C	17	5.0	5.5	5.5	—	5.6	4.1	MG5313T	3M446	42.64	17	4X427 2.51
3/4	1625/3-Spd.	230	C	16	5.25	5.75	5.0	—	4.85	5.5	PGA853T	3M450	46.59	19	4X427 2.51

G-E Replacements For Delco "Inside-Out" Motors—Permanent Split Capacitor Type, 3-Speed

1/3	1075/3-Spd.	230	B*	13.75	3.98	4.64/4.48	4.25	—	4.60	1.9	GGA862T	3M483	\$40.61	14	4X427 2.51
	1075/3-Spd.	230	A	13.50	3.98	4.64/4.48	—	4.25	5.20	1.9	GGB158T	3M487	38.35	12	4X427 2.51

(*) Base included. Use No. 3M381 adapter bracket if needed. See Index under Motor Parts & Accessories, Mounts, Blower Motor for location of adapter bracket listing.

CAPACITOR MOUNTING KIT for motors above. Includes mounting strap, two screws, rubber

pad and terminal cap. Less capacitor. Wt. 2 oz. No. 3M451. Each 91¢; lots 6.....86¢

3-SPEED SHADED POLE MOTORS

HP	RPM	Volts 60 Hz	Fig.	C	—Variable Dimensions—					Full- Load Amps	GE Model 5KSP39—	Stock No.	Each	Shpg. Wt.
					XB	YO	N	XN						
1/10	1050/3-Spd.	115	C	18"	3.5"	4.12/5.37"	6.5"	7.5"	3.7	DG4936T	3M433	\$33.61	10	
1/8	1050/3-Spd.	115	C	16	3.75	4.37/5.62	6.5	5.3	4.5	FG2662T	3M445	34.29	12	
	1050/3-Spd.	230	C	16	3.75	4.37/5.62	6.5	5.3	2.2	FG2663T	3M419	34.97	12	
1/6	1050/3-Spd.	115	C	20	4.0	4.62/5.87	7.0	8.52	5.8	HG4938T	3M420	35.76	13	
	1050/3-Spd.	230	C	20	4.0	4.62/5.87	7.0	8.52	2.8	HG4939T	3M421	36.43	14	
1/4	1050/3-Spd.	230	C	16	4.5	5.12/6.38	6.5	4.50	4.7	MG2667T	3M422	39.48	16	

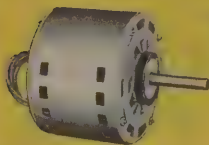
All motors on this page recognized by UL under the Motor Component Recognition Program.

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

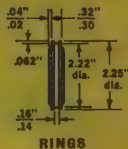
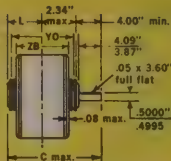
On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

GE 39-FRAME DIRECT-DRIVE BLOWER MOTORS

1/8 to 1/2 HP, Permanent Split Capacitor & Shaded Pole Types. Automatic-Reset Thermal Protection



\$24.48
No. 3M429



General Electric 1/8 to 1/2 HP direct drive, single speed, permanent split capacitor and shaded pole motors for new and replacement use on furnace blowers, fans, unit heaters, air conditioners and other air-over applications. Use permanent split capacitor models with No. 3M451 mounting kit shown below, and capacitors listed in table.

1050, 1075, 1550 and 1625 RPM; 115 and 230 volts at 60 Hz. Open, air-over construction, continuous duty. 40°C ambient, 50°C rise. Class A insulation. Resilient ring mount. All-angle sleeve bearings. Automatic reset thermal protection. Counterclockwise rotation as seen from end opposite shaft, except Nos. 3M409 and 3M411 are clockwise. 12° leads. GE brand.

SINGLE SPEED PERMANENT SPLIT CAPACITOR MOTORS

HP	RPM	Volts 60 Hz	—Variable C	—Dimensions— L	ZB	YO	Full- Load Amps	GE Model 5KCP39—	Stock No.	Less Capacitor Each	Shpg. Wt.	Capacitor Required Stk. No.	Each
1/6	1075	230	8.64"	2.38"	3.73"	4.39/4.23"	1.0	CG3306T	3M407	\$28.31	12	4X427	\$2.51
1/4	1075	115	8.89	2.63	3.98	4.64/4.48	4.7	KG3312T	3M441	30.00	11	4X427	2.51
	1075	230	8.89	2.63	3.98	4.64/4.48	1.8	KG3314T	3M408	30.57	10	4X427	2.51
	1075	230	8.89	2.63	3.98	4.64/4.48	1.8	KG3315T†	3M409†	30.57	10	4X427	2.51
	1625	230	9.14	2.88	4.23	4.89/4.73	1.5	GG3334T	3M440	28.99	10	4X427	2.51
1/3	1075	115	9.64	3.25	4.73	5.39/5.23	7.6	MG3316T	3M442	32.15	14	4X427	2.51
	1075	230	9.64	3.25	4.73	5.39/5.23	2.9	MG3318T	3M410	32.82	13	4X427	2.51
	1075	230	9.64	3.25	4.73	5.39/5.23	2.9	MG3319T†	3M411†	32.82	13	4X427	2.51
1/2	1075	230	10.10	3.75	5.23	5.89/5.73	4.6	PGD123T	3M619	37.22	17	4X429	3.15

(†) CW rotation as viewed from end opposite shaft.

CAPACITOR MOUNTING KIT for motors above. Includes mounting strap, two screws, rubber

pad and terminal cap. Less capacitor. Wt. 2 oz. No. 3M451. Each 91¢; lots 6.....86¢

SINGLE SPEED SHADED POLE MOTORS

HP	RPM	Volts 60 Hz	—Variable C	—Dimensions— L	ZB	YO	Full-Load Amps	GE Model 5KSP39—	Stock No.	Each	Shpg. Wt.
1/8	1050	115	8.64"	2.38"	3.73"	4.39/4.23"	4.3	FG2912T	3M429	\$24.48	10
1/6	1050	115	8.89	2.63	3.98	4.64/4.48	5.6	HG2920T	3M402	25.94	12
	1050	230	8.89	2.63	3.98	4.64/4.48	2.8	HG2922T	3M403	26.62	12
	1550	230	8.89	2.63	3.98	4.64/4.48	2.9	FG2918T	3M401	25.49	11
1/4	1050	115	9.39	3.13	3.48	5.14/4.98	8.6	MG2928T	3M405	28.99	14
	1050	230	9.39	3.13	3.48	5.14/4.98	4.6	MG2930T	3M406	29.67	14
	1550	230	9.39	3.13	3.48	5.14/4.98	3.7	KG2926T	3M404	27.86	14

All motors on this page recognized by UL under the Motor Component Recognition Program.

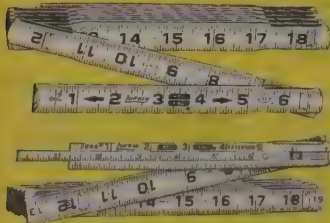


6 FT. FOLDING RULES

Available with or without 6" Slide Extension

Widely used by carpenters and other professional craftsmen. Bold red and black markings are embedded in wood, and contrast sharply against white background. Markings are protected by a clear, tough epoxy coating—won't chip, peel or discolor. Marked both sides in 16ths with 16" stud centers in red. Riveted brass lock joints are designed to eliminate end play. End caps and strike plates are solid brass to prevent wear. No. 6X107 has a graduated brass slide which extends a full 6" for taking short measurements without opening rule. Lufkin brand. Shpg. wt. 5 oz.

Type Rule	Mfrs. Model	Stock No.	Retail	Each	Lots 6
Standard	066	6X108	\$4.49	\$3.14	\$2.92
Extension	X46	6X107	6.80	4.76	4.42



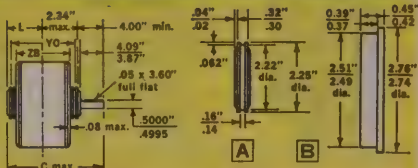
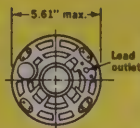
(Top)
Standard Rule
\$2.92 Lots 6

(Bottom)
Extension Rule
\$4.42 Lots 6

YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.

GE 39-FRAME 3-SPEED BLOWER MOTORS

1/8 to 1/2 HP, Permanent Split Capacitor and Shaded Pole Types. 1050 and 1075 RPM/3-Speed
Reversible Rotation on PSC Models. Automatic-Reset Thermal Protection. 115 and 230V, 60Hz



General Electric 3-speed permanent split capacitor and shaded pole motors are designed for direct-drive furnace blowers and other air-over applications. Speed is selected in the field to meet the static pressure load of the system. Permanent split capacitor motors are supplied less capacitor; use with capacitor mounting kit No. 3M451, listed below, and capacitors listed in table.

Motors are 1/8 to 1/2 HP, 1050 and 1075 RPM/3-speed, 115 and 230V, 60 Hz. Open, air-over construction, continuous duty, 40°C ambient, 50°C rise. Class A insulation. Resilient ring mount. All-angle sleeve bearings. Automatic-reset thermal protection. Counterclockwise rotation as seen from end opposite shaft. Rotation on permanent split capacitor models is easily reversed by electrical reconnection. 12" leads. Gray finish.

3-SPEED PERMANENT SPLIT CAPACITOR MOTORS, REVERSIBLE

HP	RPM	Volts 60 Hz	—Variable C	Dimensions— L	ZB	YO	Ring Full Dim. Load Ref. Amps	GE Model 5KCP39—	Stock No.	Less Cap. Each	Shpg. Wt.	Capacitor Required Stk. No.	Each
1/4	1075/3-Spd.	230	9.64	3.25	4.73	4.39/4.23"	A	2.0 FG9478T	3M415	\$34.63	12	4X427	\$2.51
1/3	1075/3-Spd.	115	9.64	3.25	4.73	5.39/5.23	A	6.8 MG9683T	3M416	36.21	16	4X429	3.15
	1075/3-Spd.	230	9.64	3.25	4.73	5.39/5.23	A	3.4 MG9479T	3M417	36.89	14	4X427	2.51
1/2	1075/3-Spd.	115	10.14	3.75	5.23	5.89/5.73	A	8.5 PG9710T	3M444	40.61	18	4X447	4.09
	1075/3-Spd.	230	10.14	3.75	5.23	5.89/5.73	A	4.3 PG9709T	3M418	41.28	19	4X429	3.15

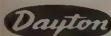
CAPACITOR MOUNTING KIT for motors above. Includes mounting strap, two screws, rubber

pad and terminal cap. Less capacitor. Wt. 2 oz. No. 3M451. Each 91¢; lots 6.....86¢

3-SPEED SHADED POLE MOTORS, NON-REVERSIBLE

HP	RPM	Volts 60 Hz	—Variable C	Dimensions— L	ZB	YO	Ring Dimen. Ref.	Full-Load Amps	GE Model 5KSP39—	Stock No.	Each	Shpg. Wt.
1/8	1050/3 Spd.	115	8.39"	2.13"	3.48"	4.14/3.98"	B	5.4	DG6124S	3M430	\$26.06	10
1/5	1050/3 Spd.	115	8.64	2.38	3.73	4.39/4.23	B	6.8	FG6125S	3M412	27.52	10
1/4	1050/3 Spd.	115	9.39	3.13	3.48	5.14/4.98	B	9.0	MG6126S	3M413	30.57	15

All motors above are recognized by UL under the Motor Component Recognition Program



FRACTIONAL HP MANUAL MOTOR STARTERS



Single Pole
\$7.63
Lots 3

Overload Protected. 120/240 VAC or 115/230VDC. 1 & 2 Pole
Reliable, low-cost toggle-operated fractional horsepower starter for control and operation of single phase motors 1 HP and smaller. Manual reset type. Can be used on compressors, refrigeration systems, fans, blowers, pumps, etc. Fits in standard handy box, or in surface mounted enclosure, No. 5X271, listed below. Plug-in heater element has a captive locking screw—requires no wiring. Quick-make, quick-break mechanism. Handle indicates On, Off, or Trip positions. Wiring diagram on starter. Single pole starter handles 120/240VAC motors. 2 pole starter for 120/240VAC, or 115/230VDC motors. With nameplate and hardware. Heater elements sold separately. UL listed.

Poles	Maximum HP 120/240 VAC	115/230 VDC	Stock No.	Retail	—Less Heater Elements— Each	Lots 3	Shpg. Wt.
1	1	—	5X269	\$11.00	\$8.03	\$7.63	8 oz.
2	1	1	5X270	13.00	9.49	9.02	8 oz.

SURFACE ENCLOSURE

NEMA 1 surface mount enclosure for 1 or 2 pole starters. Two pc. box and cover. Baked on gray enamel finish. 4 1/2 H, 3 1/2 W, 2 1/2" D. Shpg. wt. 8 oz. No. 5X271. Retail \$2.00. Each \$1.46; lots 3.....\$1.39

PILOT LIGHT KIT

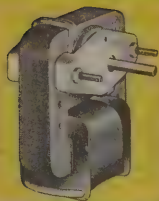
Prewired light and red lens cover. For 1 or 2 pole starter. Special nameplate for easy mounting on handy or flush boxes. Shpg. wt. 1 oz. No. 5X272. Retail \$6.00. Each \$4.38; lots 3.....\$4.16

PADLOCK KIT

Heavy duty guard with nameplate for attaching padlock to starter. Toggle can be locked in On or Off position. For 1 or 2 pole starters. Wt. 1 oz. No. 5X273. Retail \$2.00. Each \$1.46; lots 3.....\$1.39

1/500 to 1/40 HP C-FRAME MOTORS

Single-Coil, Shaded Pole, Air-Over Type. 3000 RPM, 115V, 60 Hz



Dayton

\$2.76

1/500 HP

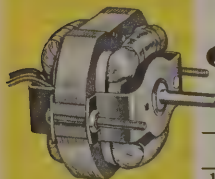
for long life. No. 3M109 has impedance thermal protection. Class A insulation. CW rotation facing shaft. Bobbin-wound coil for uniformity, better insulation. 1 $\frac{1}{32}$ " dia. rotor provides high torque 6 $\frac{1}{2}$ " leads. Fan blades available—see Index under Fan Parts: Blades, General Purpose Dayton brand.

Used on portable room heaters, kitchen fans, air cooler projectors, and similar applications. Must be mounted in air stream of driven device. Ruggedly built for dependable, quiet operation. 3000 RPM, 115V, 60 Hz. Two $\frac{1}{2}$ " long mounting studs and two $\frac{3}{32}$ " dia. mounting holes on each side of stator, 1 $\frac{1}{8}$ " OC. One-piece, die-cast bearing system. All-position bearings have large oil reservoir.

HP	RPM	Volts 60 Hz	Studs OC	Shaft Dia.	Long	Overall Height	Length Less Shaft	Full-Load Amps	Stock No.	Retail	Each	Shpg Wt.
1/500	3000	115	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1"	3"	1 $\frac{1}{16}$ "	0.20	3M365	\$4.17	\$2.76	1
1/250	3000	115	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1	3	1 $\frac{1}{16}$ "	0.22	3M109	4.54	3.02	1
1/150	3000	115	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1	3	1 $\frac{1}{16}$ "	0.55	3M039	4.71	3.13	1 $\frac{1}{2}$
1/70	3000	115	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1	3	2 $\frac{1}{16}$ "	0.80	3M056	6.25	4.15	2
1/40	3000	115	1 $\frac{1}{8}$ "	$\frac{1}{4}$ "	1	3	2 $\frac{1}{16}$ "	1.40	3M057	7.31	4.87	2 $\frac{1}{2}$

TWO-COIL C-FRAME MOTORS

1/125 and 1/70 HP, 3000 RPM, 115V, 60 Hz, Shaded Pole, Air-Over Type



Dayton

\$5.91

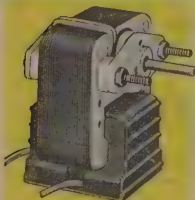
No. 3M565

Essentially same as encased (3 $\frac{1}{2}$ " dia.) shaded pole motor. Enclosure omitted to facilitate use and economy in many air moving units, etc. Ruggedly built for quiet, dependable service. 3000 RPM, 115V, 60 Hz two-coil construction. Self-aligning sleeve bearings for all-position mounting. Class A insulation. CW rotation facing shaft. 12" leads. Dayton brand.

HP	RPM	Studs OC	Shaft Dia.	Long	Overall Height	Length Less Shaft	Full-Load Amps	Stock No.	Retail	Each	Shpg Wt.
1/125	3000	2 $\frac{1}{8}$ "	$\frac{1}{4}$ "	1"	2 $\frac{1}{2}$ "	2 $\frac{5}{8}$ "	0.54	3M565	\$8.88	\$5.91	1 $\frac{1}{2}$
1/70	3000	2 $\frac{1}{8}$ "	$\frac{1}{4}$ "	1	2 $\frac{1}{2}$ "	2 $\frac{5}{8}$ "	1.0	3M566	8.88	5.91	1

ENCLOSED C-FRAME MOTORS

1/70 HP, Shaded Pole, Air-Over Type. 3000 RPM/1 and 2 Speeds, 115V, 60 Hz



Dayton

\$4.31

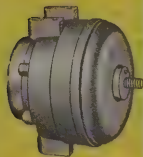
3000 RPM

C-frame motors with enclosed motor windings (capsule coil) for use in areas laden with grease and dirt, such as range hoods, kitchen exhaust fans and portable room heaters. 115V, 60 Hz. Two mounting studs $\frac{1}{2}$ " long and two $\frac{3}{32}$ " dia. mounting holes on each side of stator, 1 $\frac{1}{8}$ " OC x 2 $\frac{1}{16}$ " H x 2 $\frac{1}{16}$ " W. All-angle sleeve bearings with large oil reservoir for long life $\frac{3}{16}$ " dia. x 1" long shaft. Class A insulation. CW rotation facing shaft. 0.7 amps. Bobbin-wound coil. 6 $\frac{1}{2}$ " leads. Black bobbin and cover. Dayton brand.

HP	RPM	Studs OC	Shaft Dia.	Long	Overall Height	Length Less Shaft	Full-Load Amps	Stock No.	Retail	Each	Shpg Wt.
1/70	3000	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1"	3"	2 $\frac{3}{8}$ "	.70	3M264	\$6.48	\$4.31	2 $\frac{1}{2}$
1/70	3000/2-Spd.	1 $\frac{1}{8}$ "	$\frac{3}{16}$ "	1	3	2 $\frac{3}{8}$ "	.70	3M320	6.85	4.56	2 $\frac{1}{2}$

MORRILL UNIT BEARING FAN MOTORS

1/125 to 1/60 HP, 1450 RPM, 60 Hz, Totally Enclosed, Pre-Oiled



\$6.70

1/125 HP
Lots 10

Morrill unit-bearing motors are universally used for fan applications, refrigeration, evaporative coolers, portable and wall heaters, dehumidifiers, humidifiers and electrostatic air filters, using 5 to 10" blades. Totally enclosed. Horizontal or vertical, shaft-up mount only. Impedance protected, except 9 watt models which are thermally protected. 1450 RPM, 115 or 230V, 60 Hz, continuous duty, for air-over applications. Die cast aluminum housing. Three No. 8-36 mounting holes, 2 $\frac{1}{2}$ " OC, on rigid cast feet. 22" long leads. Kit equipped with neoprene silencers and speed nut for mounting fan on hub, and 8-36 motor mounting screws supplied with each motor. Interchangeable (mounting dimensions) with competition's 5 frame unit bearing motors. Black finish. Fan blades available—see Index.

					COUNTERCLOCKWISE ROTATION				CLOCKWISE ROTATION				Shpg Wt.
					Facing End Opposite Shaft				Facing End Opposite Shaft				
HP	Rated Volts Output 60 Hz Watts	—Shaft— Type	Lg.	Morrill	Stock	Each	Lots 10	Morrill	Stock	Each	Lots 10		
				No. SP-	No.			No. SP-	No.				
1/125	115	5W	1/4-20 Thd.	3 1/4"	B5HCEMR1	3M331	\$7.27	\$6.70	B5HCEM1	3M332	\$7.27	\$6.70	1
1/100	115	6W	1/4-20 Thd.	3 1/4"	B6HCEMR1	3M333	7.39	6.80	B6HCEM1	3M334	7.39	6.80	2
1/60	115	9W	1/4-20 Thd.	3 1/4"	B9HCEMR1	3M335	7.90	7.28	B9HCEM1	3M336	7.90	7.28	2
1/60	230	9W	1/4-20 Thd.	3 1/4"	B9HCEMR2	3M337	8.66	7.97	B9HCEM2	3M338	8.66	7.97	2

All motors on this page recognized by UL under the Motor Component Recognition Program.

GENERAL-PURPOSE PERM. SPLIT CAPACITOR MOTORS

1/70 to 1/10 HP
115V, 60/50 Hz
Automatic-Reset
Thermal Protection
\$11.43 No. 3M496
Dayton



More efficient than shaded pole type; used to replace shaded pole motors where lower current and lower energy consumption are desired. For fans, blowers, pumps, room air conditioners, other general-purpose applications. Will replace other motors having similar specifications and same or slightly slower speed. Fig. A motors are open, fan-cooled. Fig. B mo-

tors are open, air-over fan. All are 115V, 50/60 Hz; operate on 50 Hz at 5/6 of 60 Hz rated speed and HP. 1/2" stud length. Sleeve bearings. Automatic reset thermal protection. 12" long leads. Recognized by UL for construction under the Motor Component Recognition Program; CSA approved. Motors are sold less capacitor and mounting kit. Gray finish. Dayton brand.

OPEN, FAN-COOLED MOTORS, CLOCKWISE ROTATION FACING SHAFT. CLASS B INSULATION

Fig.	HP	RPM(*)	Studs OC		Shaft		Body Dia.	Length		Full-Load Amps	Stock No.	Less Cap. Each	Shpg. Wt.	Capacitor Required	
			A	B	Dia.	Long		Less Shaft	Overall Length					Stock No.	Each
A	1/70	1625	2"	2"	5/16"	1 3/8"	3.3"	3 3/4"	4 13/16"	0.46	3M496	\$11.43	2	4X426	\$2.17
A	1/40	1625	2	2	5/16"	1 3/8"	3.3	3 1/2"	5 1/8"	0.60	3M495	12.23	3	4X426	2.17
A	1/30	1625	2	2	5/16"	1 3/8"	3.3	3 7/8"	5 1/2"	0.65	3M497	12.97	4	4X426	2.17
A	1/20	1625	2	2	5/16"	1 3/8"	3.3	4 1/8"	5 11/16"	0.80	3M498	13.46	4	4X426	2.17
A	1/15	1625	2	2	5/16"	1 3/8"	3.3	4 3/4"	6 1/2"	1.20	3M499	14.66	5	4X426	2.17

OPEN, AIR-OVER FAN MOTORS, REVERSIBLE ROTATION. CLASS A INSULATION

B	1/15	1625	2 3/4"	2 3/4"	3/8"	1 3/4"	4 3/8"	3 3/8"	4 3/4"	0.75	3M486	\$23.03	5	4X427	\$2.51
B	1/15	1000	4	2 5/8"	3/8"	1 7/8"	5	2 5/8"	4 7/8"	1.50	3M484	21.86	5	4X426	2.17
B	1/10	1000	4	2 5/8"	3/8"	1 7/8"	5	3 1/4"	5 1/8"	1.90	3M485	23.14	6	4X428	2.17

(*) At 60 Hz. Also operable on 115V, 50 Hz at 5/6 of 60 Hz rated speed and HP.

CAPACITOR MOUNTING KIT for above motors. Includes mounting strap, terminal cap, screw

and locking nut. Less capacitor. Wt. 3 oz. No. 3M533. Each 69¢; lots 4**58c**

ROOM AIR CONDITIONER PERM. SPLIT CAP. MOTORS

1/15 HP, 115V, 60 Hz. Automatic-Reset Thermal Protection. Dayton Brand



\$17.35
No. 3M500

Similar to general-purpose permanent split capacitor motors listed above, but designed for use as direct replacements for motors in many popular brands of room air conditioners. More efficient, cost less to operate than shaded pole motor of equivalent HP. 115V, 60 Hz. Sleeve bearings. Automatic reset thermal protection. 24" long leads. Motors are sold less capacitor and mounting kit listed below. Dayton brand.

No. 3M500 totally enclosed, non-vented motor is direct replacement for motor in most Whirlpool, Sears and Quietcool room air conditioners. No. 3M501 open, fan-cooled motor is direct replacement for motors in most Frigidaire, Carrier and Keeprite room air conditioners. Both models are recognized by UL under the Motor Component Recognition Program; both are CSA approved.

ROOM AIR CONDITIONER REPLACEMENT MOTORS—CW ROTATION (#) CLASS A INSULATION

Fig.	HP	RPM	Studs OC		Shaft		Body Dia.	Length		Full-Load Amps	Stock No.	Less Cap. Each	Shpg. Wt.	Capacitor Required	
			A	B	Dia.	Long		Less Shaft	Overall Length					Stock No.	Each
C	1/15	1625/3 Spd.	2"	2"	5/16"	2 7/8"	3.3"	3 3/4"	9 1/2"	1.1	3M500	\$17.35	4	4X425	\$1.98
D	1/15	1430/2 Spd.	See Dwg.	See Dwg.	5/16"	3	3.3	3 3/4"	9 3/4"	1.2	3M501	17.97	5	4X427	2.51

(#) Clockwise rotation facing shaft opposite end with wire leads.

CAPACITOR MOUNTING KIT for above motors. Includes mounting strap, terminal cap, screw

and locking nut. Less capacitor. Wt. 3 oz. No. 3M533. Each 69¢; lots 4**58c**

SEE WARRANTY INFORMATION ON PAGE 684

3 1/4" DIA. OPEN AND ENCLOSED SHADED POLE MOTORS

1550 & 3000 RPM, 115V, 60 Hz. All With Automatic-Reset Thermal Protection. Dayton Brand

Dayton



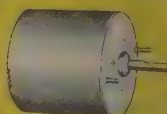
Stud Reference



A



B



C

\$6.05

1/100 HP.
1550 RPM

Smooth, quiet, dependable performance provided through care in design and precise control in manufacturing. 115V, 60 Hz. Extended studs for mounting motor or attaching fan guard. See table for stud mounting dimensions. All-position sleeve bearings.

Automatic reset thermal protection. Class A insulation. Lead length varies from 8 1/2 to 20" except Model 3M550 has 9-ft. 3-cond. cord set with in-line two speed switch. Stamped steel casing, painted with gray gloss enamel. Recognized by UL under the Motor Component Recognition program. Dayton brand.

3 1/4" DIA. OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

Fig.	HP	RPM	Volts 60 Hz	Studs A	OC B	—Shaft— Dia. Long	Length Less Shaft	Overall Length	Full- Load Amps	Rotation*	Stock No.	Each	Shpg. Wt.
A	1/100	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3"	.73	CW	3M534	\$6.05	2
A	1/100	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3"	.73	CCW	3M535	6.05	2
A	1/100	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3"	.73	CW	3M536s	6.05	2
A	1/100	3000	115	2 27/32	—	1 1/4 1	2 1/8	3 1/2	.59	CW	3M537	6.06	2
A	1/70	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3"	.75	CW	3M538	6.17	2
A	1/70	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3"	.75	CCW	3M539	6.17	2
A	1/70	3000	115	2 27/32	—	1 1/4 7/8	2 3/8	3 5/8	.85	CW	3M540	6.95	2
A	1/70	3000	115	2 27/32	—	1 1/4 1 3/8	2 3/8	4 1/2	.85	CW	3M541#	7.23	2
A	1/50	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3 3/8	.86	CW	3M542	6.95	2
A	1/40	1550	115	2 27/32	—	5/16 1 3/8	2 1/8	3 3/8	1.1	CW	3M543	6.86	2
A	1/40	1550	115	2 27/32	—	5/16 1 3/8	2 1/8	3 3/8	1.1	CCW	3M544	6.86	2
A	1/40	3000	115	2 27/32	—	5/16 1 3/8	3	3 7/8	1.2	CW	3M545	6.86	2
A	1/30	1550	115	2	2"	5/16 1 3/8	2 3/4	4 3/8	1.2	CW	3M546	7.71	3
A	1/20	1550	115	2	2	5/16 1 3/8	3	4 5/8	1.7	CW	3M547	8.34	3
A	1/15	3000	115	2	2	5/16 1 3/8	3 5/8	5	2.4	CW	3M548	8.35	4

3 1/4" DIA. TWO-SPEED OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

A	1/30	1550, 2-Spd.	115	2	2	5/16 1 3/4	2 3/4	4	1.4	CW	3M549†	8.63	3
A	1/30	1550, 2-Spd.	115	2	2	5/16 1 3/4	3	4 1/4	1.4	CW	3M550**	13.33	4

3 1/4" DIA. OPEN, INTERNALLY FAN-COOLED, GENERAL PURPOSE, CONTINUOUS DUTY

B	1/100	1550	115	2 27/32	—	1 1/4 1 3/4	3	4 3/4	.68	CW	3M558x	6.51	2
B	1/100	1550	115	2 27/32	—	1 1/4 1 3/4	3	4 3/4	.68	CCW	3M559x	6.51	2
B	1/70	1550	115	2 27/32	—	1 1/4 1 3/4	3 1/4	5	.75	CW	3M560x	7.35	2
B	1/70	1550	115	2 27/32	—	1 1/4 1 3/4	3 1/4	5	.75	CCW	3M561x	7.35	2
B	1/40	1550	115	2 27/32	—	5/16 1 3/8	3 1/2	5 1/8	1.0	CW	3M562x	8.28	3
B	1/40	1550	115	2 27/32	—	5/16 1 3/8	3 1/2	5 1/8	1.1	CCW	3M563x	8.28	3

3 1/4" DIA. TENV MOTORS FOR AIR-OVER FAN APPLICATIONS

C	1/100	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3	.73	CW	3M552#x	6.40	2
C	1/70	1550	115	2 27/32	—	1 1/4 7/8	2 1/8	3 3/8	.70	CW	3M554x	6.92	2 1/2
C	1/40	1550	115	2 27/32	—	5/16 1 1/4	2 3/4	4	1.1	CW	3M555x	7.74	3
C	1/40	1550	115	2 27/32	—	5/16 1 1/4	2 3/4	4	1.1	CW	3M556†	8.55	4
C	1/30	1550	115	2	2	5/16 1 3/8	3	4 5/8	1.2	CW	3M557	8.31	4

(*) Facing shaft end. (#) Has plug cap, studs opposite shaft end. (s) Studs opposite shaft end.

(**) Has 9-ft. 3-conductor cord, plug and 2-speed switch.

(†) Has 3.28 cubic inch junction box.

(‡) Use with No. 1W315, 12 ft. SJ cord set with 2-speed switch.

(x) Motor has two welded studs on both endshields.

RAINFROOF DISCONNECT SWITCH

For Ventilators, Air Conditioners, Pumps, Etc.

Dayton non-fusible, pullout disconnect switch in NEMA 3R outdoor rainproof enclosure—a must where NEC code requires disconnect switch within sight of air conditioning equipment, pumps, and other installations. Rated 60 amps, 120/240VAC, single phase, 2 or 3 wire, for up to 10 HP motors. Enclosure can be padlocked. Overall dimensions: 10 1/8 H x 6 3/8 W x 4" D. Gray finish. UL listed. Dayton brand. Shpg. wt. 7 lbs.

No. 5X672. Dayton Disconnect Switch. Retail \$24.50. Each.....\$12.35



USE GRAINGER'S SUPPLY SERVICE—GET FAST TURNOVER WITH LESS INVENTORY

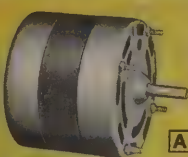
4³/₈" DIA. OPEN AND ENCLOSED SHADED POLE MOTORS

1550 RPM, Single & Two Speed, 115 and 230V, 60 Hz. All with Automatic-Reset Thermal Protection

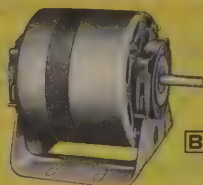


Stud Spacing Reference

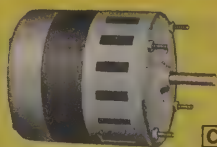
Dayton



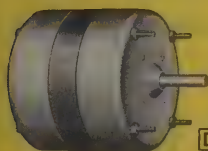
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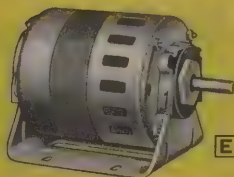
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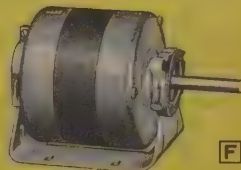
C



D



E



F

\$12.69 Precision-built for dependable performance. Extended stud models for mounting motor or attaching fan guard; also resilient base models with mounting holes 1¹/₈ x 3³/₈" OC (Nos. 3M577, 3M578) or 1¹/₈ x 3³/₈" OC (Nos. 3M579, 3M580, 3M581). Large, self-aligning sleeve bearings for quiet operation, all-position mounting. Automatic-reset thermal protection. Class A insulation.

Lead length varies from 10 to 19", except Model 3M570 has 8-ft. 3-cond. cord set with in-line On-Off switch and Nos. 3M572 and 3M575 have 9-ft. 3-cond. cord set with in-line two speed switch. Stamped steel casing on all motors. Stamped steel base on resilient mount motors. Baked gray gloss finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

4³/₈" DIA. OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

Fig.	HP	RPM	Volts 60 Hz	Studs A B	OC	—Shaft— Dia. Long	Length Less Shaft	Over- all Length	Full- Load Amps	Rotation*	Stock No.	Each	Shpg. Wt.
A	1/15	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3"	4 ³ / ₈ "	2.4	CW	3M569	\$12.69	5
A	1/15	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ³ / ₈ "	5 ¹ / ₈ "	2.4	CW	3M570**	15.17	6
B	1/15	1550	115	Resilient		3/8" 1 ³ / ₈ "	3 ³ / ₈ "	5 ¹ / ₈ "	2.4	CW	3M577	15.00	6
B	1/15	1550	230	Resilient		3/8" 1 ³ / ₈ "	3 ³ / ₈ "	5 ¹ / ₈ "	1.2	CW	3M578	15.29	6 ¹ / ₂
A	1/10	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	4 ¹ / ₈ "	5 ¹ / ₈ "	3.2	CW	3M574	15.05	5

4³/₈" DIA. 2-SPEED OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

A	1/15	1550/2 Spd.	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ³ / ₈ "	4 ³ / ₈ "	2.6	CW	3M571†	\$14.63	6
A	1/15	1550/2 Spd.	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ³ / ₈ "	4 ³ / ₈ "	2.6	CW	3M572†	19.11	6 ¹ / ₂
A	1/10	1550/2 Spd.	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	4 ¹ / ₈ "	5 ¹ / ₈ "	3.9	CW	3M575†	20.57	7 ¹ / ₂

4³/₈" DIA. OPEN, INTERNALLY FAN COOLED MOTORS FOR CONTINUOUS DUTY

C	1/15	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ⁷ / ₈ "	5 ¹ / ₈ "	2.8	CW	3M573	\$13.75	5 ¹ / ₂
E	1/15	1550	115	Resilient		3/8" 1 ³ / ₈ "	3 ⁷ / ₈ "	5 ¹ / ₈ "	2.8	CW	3M579	16.31	6
C	1/10	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	4 ¹ / ₈ "	5 ¹ / ₈ "	3.3	CW	3M576x	16.32	7
E	1/10	1550	115	Resilient		3/8" 1 ³ / ₈ "	4 ¹ / ₈ "	5 ¹ / ₈ "	3.3	CW	3M580	18.35	8

4³/₈" DIA. TENV MOTORS FOR AIR-OVER FAN APPLICATIONS

D	1/20	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ¹ / ₂ "	4 ¹ / ₈ "	2.2	CW	3M567	\$13.46	5 ¹ / ₂
D	1/20	1550	115	2 ³ / ₄ "	2 ³ / ₄ "	3/8" 1 ³ / ₈ "	3 ¹ / ₂ "	4 ¹ / ₈ "	2.2	CW	3M568x	13.98	5 ³ / ₄
F	1/20	1550	115	Resilient		3/8" 1 ³ / ₈ "	3 ¹ / ₂ "	5 ¹ / ₈ "	2.2	CW	3M581	16.09	8

(*) Facing shaft end. (**) Has 8-ft. 18-3 AWG cord with plug and in-line On-Off switch.

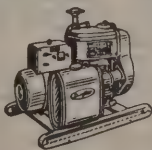
(†) Has 9-ft. 3-conductor cord with plug and in-line two speed switch.

(‡) Use with No. 1W315, 12 ft., SJ cord set with 2-speed switch.

(x) Has 3.28 cubic inch junction box.

1000 to 30,000 WATT PORTABLE & STATIONARY POWER PLANTS STOCKED

Grainger's has large stocks of high performance, portable alternator and generator power plants with 1000 to 7000 watts, 115 & 230V AC output for emergency and stand-by service. Stationary-type generators with 5000 to 30,000 watts output are

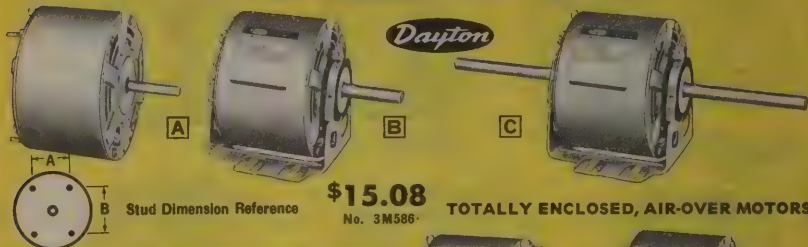


also stocked. Units start automatically when public power fails, shut off when normal power resumes. The Dayton line is quality-built and available with a variety of features. Large stocks maintained. See Index under Power Plants.

5" DIA. OPEN AND ENCLOSED SHADED POLE MOTORS

1/15 to 1/8 HP. 1050 RPM, 1 and 2-Speed, 115V, 60 Hz. All With Automatic-Reset Thermal Protection

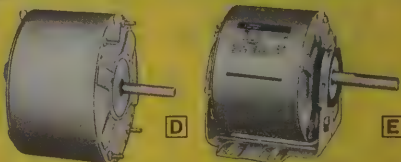
OPEN TYPE SHADED POLE MOTORS



\$15.08

No. 3M586

TOTALLY ENCLOSED, AIR-OVER MOTORS



Built for dependable performance, long service life on air-over fan applications. Resilient base motors have mounting holes $1\frac{1}{16}$ x $3\frac{1}{2}$ " OC, except 1/8 HP models are $1\frac{1}{16}$ x $4\frac{3}{4}$ " OC. Self aligning sleeve bearings. Automatic-reset thermal protection. Class A insulation. Leads vary in length from 12 to 20". Stamped steel casing. Gray gloss enamel finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

5" DIA. OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

Fig.	HP	RPM	Volts 60 Hz	Studs OC A B	—Shaft— Dia. Long	Length Less Shaft	Overall Length	Full- Load Amps	Rotation*	Stock No.	Each	Shpg. Wt.
A	1/15	1050	115	$2\frac{15}{16}$ " $3\frac{3}{4}$ "	$\frac{3}{8}$ " $1\frac{1}{2}$ "	$3\frac{3}{8}$ " $5\frac{1}{8}$ "	$5\frac{1}{8}$ "	2.6	CW	3M586**	\$15.08	6 $\frac{3}{4}$ "
B	1/15	1050	115	Resilient	$\frac{3}{8}$ " $1\frac{1}{2}$ "	$4\frac{1}{4}$ " $5\frac{1}{8}$ "	$5\frac{1}{8}$ "	2.6	CW	3M589	17.08	8"
A	1/10	1050	115	$2\frac{15}{16}$ " $3\frac{3}{4}$ "	$\frac{3}{8}$ " $1\frac{1}{2}$ "	$4\frac{1}{4}$ " $5\frac{1}{8}$ "	$5\frac{1}{8}$ "	3.4	CW	3M585**	15.88	8 $\frac{3}{4}$ "
C	1/10	1050	115	Resilient	$\frac{1}{2}$ " $4\frac{1}{2}$ " Ea.	$5\frac{1}{4}$ " $14\frac{1}{4}$ "	$14\frac{1}{4}$ "	3.4	CW	3M590	19.37	11"
A	1/8	1050	115	$2\frac{9}{16}$ " $4\frac{7}{16}$ "	$\frac{1}{2}$ " 3	$4\frac{1}{2}$ " $7\frac{1}{2}$ "	$7\frac{1}{2}$ "	5.1	CW	3M5871x	18.72	15"

5" DIA. TWO-SPEED OPEN MOTORS FOR AIR-OVER FAN APPLICATIONS

A	1/15	1050/2 Spd.	115	$2\frac{15}{16}$ " $3\frac{3}{4}$ "	$\frac{3}{8}$ " $1\frac{1}{2}$ "	$3\frac{3}{8}$ " $5\frac{1}{8}$ "	$5\frac{1}{8}$ "	2.6	CW	3M583**†	\$15.88	6 $\frac{3}{4}$ "
C	1/10	1050/2 Spd.	115	Resilient	$\frac{1}{2}$ " $4\frac{1}{2}$ " Ea.	$4\frac{1}{4}$ " $13\frac{1}{4}$ "	$13\frac{1}{4}$ "	3.7	CW	3M592	20.75	11"
C	1/10	1050/2 Spd.	230	Resilient	$\frac{1}{2}$ " $4\frac{1}{2}$ " Ea.	$4\frac{1}{4}$ " $13\frac{1}{4}$ "	$13\frac{1}{4}$ "	1.8	CW	3M593	21.11	11"
C	1/8	1050/2 Spd.	115	Resilient	$\frac{1}{2}$ " $5\frac{1}{4}$ " Ea.	$4\frac{1}{2}$ " 15 "	15 "	5.0	CW	3M594x	22.88	16"
C	1/8	1050/2 Spd.	230	Resilient	$\frac{1}{2}$ " $5\frac{1}{4}$ " Ea.	$4\frac{1}{2}$ " 15 "	15 "	2.5	CW	3M595x	23.35	16"

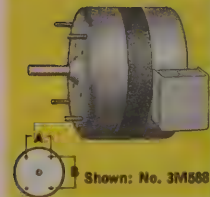
5" DIA. TENV MOTORS FOR AIR-OVER FAN APPLICATIONS

D	1/15	1050	115	$2\frac{15}{16}$ " $3\frac{3}{4}$ "	$\frac{1}{2}$ " $2\frac{9}{16}$ "	$4\frac{1}{8}$ " $6\frac{5}{8}$ "	$6\frac{5}{8}$ "	2.2	CW	3M582#	\$18.00	10"
E	1/15	1050	115	Resilient	$\frac{1}{2}$ " $2\frac{9}{16}$ "	$4\frac{1}{8}$ " $6\frac{5}{8}$ "	$6\frac{5}{8}$ "	2.2	CW	3M588	19.89	10"

(*) Facing shaft end. (\$) Opposite end with wire leads. (**) Studs opposite shaft end. (†) Studs out shaft end. (#) Has 3.28 cubic inch junction box. (‡) Use with No. 1W315, 12 ft. SJ cord set with two-speed switch. (x) Motor has a $5\frac{5}{8}$ " dia. body instead of 5".

FAN MOTORS WITH JUNCTION BOX

1/40, 1/20, 1/15 HP. Shaded Pole Totally-Enclosed, Non-Ventilated Air-Over Fan Motors. Automatic-Reset Thermal Protection



Shown: No. 3M588

Dayton

\$8.55

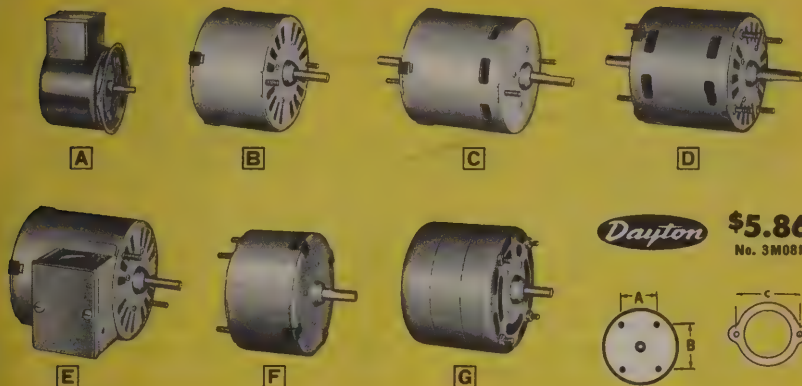
1/40 HP

Widely used on permanently installed exhaust fans where conduit connection is wanted. Junction box 3.28 cu. in. size with ample knockouts. Shaded pole type. Totally-enclosed for air-over fan applications in grease and dust laden atmospheres. Extended thru-bolts on No. 3M582. Nos. 3M556 and 3M568 have welded mounting studs. All-position sleeve bearings. Automatic reset thermal protection. Class A insulator CW rotation facing shaft. Lead length $10\frac{1}{2}$ or 12". Recognized by UL under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Studs OC A B	—Shaft— Dia. Long	Body Dia.	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Each	Shpg. Wt.
1/40	1550	115	$2\frac{17}{32}$ " —	$\frac{5}{16}$ " $1\frac{1}{2}$ "	$3\frac{1}{4}$ "	$2\frac{3}{4}$ "	4"	1.1	3M556	\$8.55	4"
1/20	1550	115	$2\frac{3}{4}$ " $2\frac{3}{4}$ "	$\frac{3}{8}$ " $1\frac{3}{8}$ "	$4\frac{3}{8}$ "	$3\frac{1}{2}$ "	$4\frac{1}{8}$ "	2.2	3M568	13.98	5 $\frac{3}{4}$ "
1/15	1050	115	$2\frac{15}{16}$ " $3\frac{3}{4}$ "	$\frac{1}{2}$ " $2\frac{9}{16}$ "	5	$4\frac{1}{8}$ "	$6\frac{5}{8}$ "	2.2	3M582	15.55	10"

FAN/BLOWER SHADED POLE REPLACEMENT MOTORS

1/125 to 1/6 HP, 115 and 230V, 60 Hz. 3000, 1500 and 1000 RPM. Single and Double Shaft Models



Shaded pole motors for replacement use on fans, blowers and a wide range of other equipment. Single and double shaft models in 1/125 to 1/6 HP, 3000-1500-1000 RPM, 115 and 230V,

60 Hz. Extended studs for mounting or attaching fan guard. Sleeve bearings. Class A insulation. Leads 6 to 12" long. Pressed steel casings in baked gray gloss finish. Dayton brand.

Fig.	HP	RPM	Volts 60 Hz	Studs OC		Shaft		Body Dia.	Length Less Shaft	Overall Length	Full- Load Amps	Rota- tion*	Stock No.	Each	Shpg. Wt.
				A	B	Dia.	Long								
3000 RPM MOTORS FOR AIR-OVER FAN APPLICATIONS															
A	1/125	3000	115	Bracket†	—	1/4"	1"	3 1/4"	2 11/32"	3 11/32"	0.52	CCW	4K528	\$8.31	2 1/4
A	1/125	3000	115	Bracket†	—	1/4"	1	3 1/4"	2 11/32"	3 11/32"	0.52	CCW	4K724§	7.09	2 1/4
B	1/50	3000	115	2 27/32"	—	1/4"	1	3 11/32"	2 11/32"	3 11/32"	0.86	CW	3M081	5.88	2
B	1/45	3000	115	2 27/32"	—	1/4"	1 1/4	3 11/32"	3 35/64"	3 49/64"	0.74	CW	5K171x	7.46	2
B	1/40	3000	115	2 27/32"	—	1/4"	1 1/16	3 11/32"	2 21/32"	3 35/64"	1.12	CW	3M079	7.57	2 1/2
D	1/40	3000	115	2 27/32"	—	1/4"	1	3 11/32"	2 21/32"	4 21/32"	1.00	CW	3M084x	7.00	2 1/4
E	1/30	3000	115	2 27/32"	—	5/16"	1	3 11/32"	3 7/32"	4 7/32"	1.02	CW	4K850	9.31	3
E	1/30	3000	230	2 27/32"	—	5/16"	1 3/16	3 11/32"	3 7/32"	4 13/32"	0.51	CW	3M071	9.82	2
E	1/25	3000	115	2 27/32"	—	1/4"	1	3 11/32"	3 7/32"	4 7/32"	1.32	CW	3M078	10.02	3

1500 RPM MOTORS FOR AIR-OVER FAN APPLICATIONS															
F	1/100	1500	115	2"	2"	5/16"	1 3/4"	3 11/32"	3 7/32"	4 13/32"	0.62	CCW	5K175	\$6.77	2
C	1/100	1500	115	2 7/8"	—	5/16"	1 1/4"	3 11/32"	2 23/64"	5 55/64"	0.47	CCW	5K172	6.74	2
B	1/50	1500	115	2 27/32"	—	5/16"	1 23/64"	3 11/32"	2 13/32"	3 49/64"	0.97	CW	5K174	8.34	2 3/4
B	1/50	1500	230	2 27/32"	—	5/16"	1 23/64"	3 11/32"	2 13/32"	3 49/64"	0.55	CW	3M072	9.00	3
C	1/40	1500	115	2 27/32"	—	5/16"	1	3 11/32"	3 7/32"	5 7/32"	1.10	CCW	5K173x	10.28	4
D	1/20	1500	115	2	2	5/16"	1 1/4"	3 11/32"	3	5 1/2"	1.80	CCW	3M083	10.40	4
E	1/20	1500	115	2	2	5/16"	1 1/4"	3 11/32"	2 3/4"	4	1.78	CW	3M082	10.06	3
G	1/12	1500	115	2 3/4"	2 3/4"	3/8"	1	4 23/64"	3 35/64"	4 23/64"	2.88	CW	3M058	13.95	6
G	1/10	1500	115	2 3/4"	2 3/4"	3/8"	1	4 23/64"	3 35/64"	4 35/64"	3.22	CW	3M059	15.22	7 1/2

1000 RPM MOTOR FOR AIR-OVER FAN APPLICATIONS															
E	1/8	1000	115	(†)	(†)	1/2"	1 3/8"	5"	4 5/8"	5 23/64"	5.60	CW	3M074	\$18.95	10

NOTE: All Fig. E motors have 5 cubic inch conduit box. (§) Does not have conduit box.

(*) Rotation facing shaft for Fig. A, B, E, F and G; rotation facing shaft opposite lead end for Fig. C and D.

(x) Open, fan-cooled motor for general purpose applications.

STUD REFERENCE FOR ABOVE MOTORS—NUMBER and LOCATION

Fig.	Motor RPM	—Number of Studs— On Shaft Endshield	Opposite Shaft Endshield	Fig.	Motor RPM	—Number of Studs— On Shaft Endshield	Opposite Shaft Endshield
A	3000	Bracket†	—	E	3000	2	—
B	3000/1500	2	—	E	1500	4	—
C	3000/1500	2	2	E	1000	3†	—
D	3000	2	2	F	1500	—	4
D	1500	4	4	G	1500	4	—

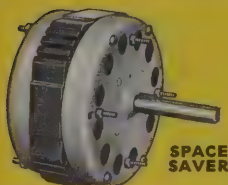
(†) Bracket has two .2" dia. holes 3 3/8" OC for mounting. See C dimension in drawing. (†) Stud dimension 4 5/8" on bolt circle.

All motors on this page recognized by UL under the Motor Component Recognition Program.

SEE WARRANTY INFORMATION ON PAGE 684

1 and 2-SPEED, OPEN-TYPE, SHADED POLE MOTORS

1/15 and 1/10 HP, 115 and 230V, 60 Hz. Space Saver and Double Shaft Types

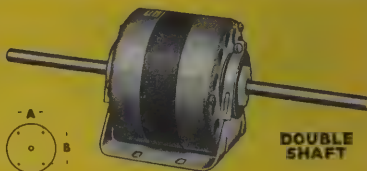


**SPACE
SAVER**

Dayton

\$10.12

Space-Saver,
Single Speed



**DOUBLE
SHAFT**

Precision-built for dependable performance. Extended studs for mounting or attaching fan guard. Sleeve bearings. Automatic reset thermal protection on No. 5K101 double shaft motor. Class A insulation. CW rotation facing shaft.

Leads 14 to 20" long except Model 3M386 has 9-ft. 3-cond. cord set with in-line two-speed switch. Pressed steel casings. Recognized by UL under the Motor Component Recognition Program. Gray enamel finish. Dayton brand.

ONE and TWO-SPEED SPACE-SAVER MOTORS FOR AIR-OVER FAN APPLICATIONS

HP	RPM	Volts 60 Hz	Studs A	OC B	Shaft Dia.	Long	Dia. or Ht.	Length Less Shaft	Overall Length	Thermal Protec- tion	Full- Load Amps	Stock No.	Each	Shpg. Wt.
1/15	1000	115	2 3/16"	4"	3/8"	1 7/8"	5"	2 1/4"	4 1/8"	—	2.6	3M207	\$10.12	5 1/2
1/15	1000/2-Spd.	115	2 3/16"	4	3/8"	1 7/8"	5	2 1/4"	4 1/8"	—	2.6	3M386†	17.60	6

DOUBLE SHAFT MOTOR FOR AIR-OVER FANS ON AIR CONDITIONERS

1/10	1000	230	Resilient	1/2"	4 1/2"	Ea. 5 1/8"	5 3/8"	14 3/8"	Auto	1.7	5K101	\$19.37	10
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(†) Has 9-ft. gray plastic, 3-conductor cord with plug and 2-speed switch 36" from motor.

1/15 HP, 1050 RPM, OPEN & ENCLOSED FAN MOTORS



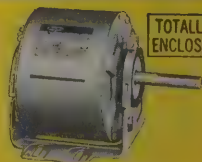
Automatic-Reset Thermal Protection

115V, 60 Hz

Dayton

\$16.58

No. 3M589



**TOTALLY
ENCLOSED**

OPEN TYPE, AIR-OVER FAN

TENV, AIR-OVER FAN

Same type shaded pole motor used on unit heaters, air coolers, air conditioners and many other air-over motor fan applications. Resilient base has 4 mounting slots spaced 1 1/16 x 3 1/2" OC.

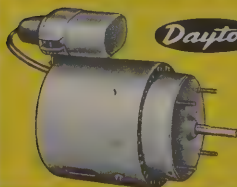
All-angle sleeve bearings. 2 3/8" shaft height. Automatic reset thermal protection. Class A insulation. CW rotation facing shaft. 12" long leads. Steel case and base. Gray. Dayton brand.

HP	RPM	Volts 60 Hz	Resilient Mounting Holes	OC	Shaft Dia.	Long	Overall Height	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Each	Shpg. Wt.
1/15	1050	115	1 11/16 x 3 1/2"		3/8"	1 5/8"	5 3/4"	4 3/16"	5 7/8"	2.6	3M589	\$16.58	8
1/15	1050	115	1 11/16 x 3 1/2"		3/8"	2 1/16"	5 5/16"	4 1/16"	6 3/8"	2.2	3M588	19.32	10

All motors above are recognized by UL under the Motor Component Recognition Program.

1/8 HP PERMANENT SPLIT CAPACITOR MOTOR

3000 RPM, 115V, TEFC, Reversible. Dayton Brand



Dayton

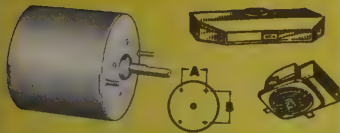
\$18.51

Lots 6

Totally enclosed, fan-cooled, permanent split capacitor motor for use on recirculating pumps, vending machines, beverage dispensers, etching machines, and many other applications which need a motor that operates in dusty, dirty and corrosive atmospheres. 115V, 60 Hz. Four mounting studs 2" OC. Sleeve bearings. 3/16" dia. x 1 3/8" long shaft with flat. Body dia. 4"; overall height with capacitor 5 3/8"; length less shaft 5 1/4"; overall length 6 5/8". 1.8 full-load amps. Class A insulation, continuous duty. Wired for CW rotation facing shaft. Rotation easily reversed by electrical reconnection. Capacitor and mounting bracket supplied. 18/2 leads, 12" long. Gray finish. Dayton brand. Shpg. wt. 6 lbs.

No. 3M292. Retail \$29.97. Each \$19.94; lots 6.....\$18.51

TOTALLY ENCLOSED KITCHEN FAN MOTORS



Dayton

1/100 to 1/30 HP, 1550 RPM, 115V, 60 Hz.
Air-Over-Fan Type Shaded Pole Motors
With Automatic-Reset Thermal Protection

\$6.40

No. 3M552

Totally enclosed and safer for applications in grease and dust-laden atmospheres—kitchen exhaust fans and other air-over-fan uses. All-position sleeve bearings. Class A insulation. Clockwise rotation facing shaft. Leads 8½ to 14½" long. Usable on most fans. Dayton brand.

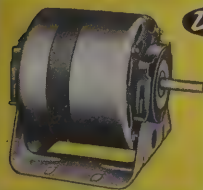
HP	RPM	Volts 60 Hz	Studs A	OC B	—Shaft— Dia. Long	Body Dia.	Length Less Shaft	Overall Length	Full- Load Amps	Stock No.	Each	Shpg. Wt.
1/100	1550	115	2 31/64"	—	1/4" 7/8"	3 1/4"	2 3/8"	3"	.73	3M552 [†]	\$6.40	2
1/70	1550	115	2 31/64"	—	3/4 1 1/8"	3 3/4"	2 1/2"	3 3/8"	.70	3M554	6.92	2 1/2
1/40	1550	115	2 31/64"	—	5/16 1 1/4"	3 1/4"	2 3/4"	4"	1.1	3M555	7.74	3
1/40	1550	115	2 31/64"	—	5/16 1 1/4"	3 1/4"	2 3/4"	4"	1.1	3M556 [†]	8.55	4
1/30	1550	115	2 31/64"	—	5/16 1 1/8"	3 3/4"	3"	4 5/8"	1.2	3M557	8.31	4

(†) Has plug cap, studs opposite shaft end. (‡) Has 3.28 cubic inch junction box.

(*) Motor has two welded studs on both endshields.

1/15 HP, 1500 RPM MOTOR

Handles 20" Blade on Exhaust Fans, Circulators



Dayton \$15.00
115V

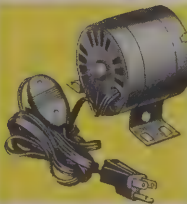
Designed by Dayton for exhaust fans, heat circulators, air coolers and other air-over-motor fan applications. Handles 20" fan blades. 1550 RPM, 115 or 230V, 60 Hz, shaded pole type. Resilient

base mounting holes 1 1/8 x 3/8" OC. All-position mounting sleeve bearings. 3/8" dia. x 1 1/8" long shaft with flat. Body dia. 4 3/8"; overall height 4 1/4"; shaft height 2 3/4"; length less shaft 3 3/4"; overall length 5 1/8". Automatic reset thermal protection. Class A insulation. Clockwise rotation facing shaft. 13" plastic 18 ga. leads. Gray enamel finish. Dayton brand. Shpg. wt. 6 1/2 lbs.

HP	Volts 60 Hz	Full-Load Amps	Stock No.	Retail	Each
1/15	115	2.4	3M577	\$23.13	\$15.00
1/15	230	1.2	3M578	23.87	15.29

115V VIBRATOR MOTOR

Conversion Units for Relaxation Chairs, Etc.
Designed for Installation in Open Areas



\$9.31

Lots 4
Less Base

Adaptable for a wide variety of furniture, industrial and laboratory applications. Low cost, effective and dependable. Motor is shaded pole construction, rated 115V, 60 Hz. Not recommended for use in enclosures where cooling air and ventilation are restricted. No exposed moving parts. Body dia. 3 1/2"; overall length 3 1/2". Automatic reset thermal protection. .50 full-load amps. Class A insulation. 10-ft., 3-cond. cord and switch attached. Can be used with optional clamp-on type base No. 2C703, which has 4 slotted mounting holes 7/8 x 3". Black finish. Assembled in a few minutes. Combined shpg. wt. 2 lbs. Dayton brand.

No. 3M564. Dayton Vibrator Motor, Less Base. Retail \$15.08. Each \$10.03; lots 4.....\$9.31

No. 2C703. Base for above, with bolt. 6 oz. Retail \$1.65. Each \$1.10; lots 4.....\$1.00

All motors on this page recognized by UL under the Motor Component Recognition Program.

SQUARE D VOLTAGE TESTER

110/220/440/550VAC 60 Hz. 125/250/600VDC

\$11.55

Quickly determines nominal voltage of DC and 60 Hz AC circuits. Easy to use, safer and more rugged than many other testers. Test prod tips are safely-designed, with spring-loaded retractable shrouds surrounding hardened steel spear points to prevent accidental contact of spear point with exposed terminals or bare wires. Entire unit completely sealed in shockproof molded case for operating safety and to protect mechanism from dust, dirt and foreign objects. Tester comes complete with two 30" heavy duty test leads and magnetic DC polarity. Individually cartoned. Square D brand (5008). Shpg. wt. 8 oz. No. 4X488. Square D AC/DC Voltage Tester. Retail \$21.00. Each.....\$11.55



COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



SEE WARRANTY INFORMATION ON PAGE 684

1/20 & 1/15 HP TOTALLY ENCLOSED, FAN-COOLED

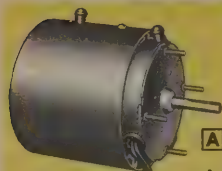
1500 & 3000 RPM, 115 and 230V, 60 Hz

Shaded Pole Type Motors

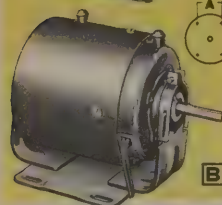
For Fans, Blowers, Appliances

Dayton \$12.95
No. 1M001

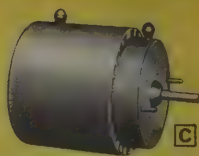
Widely used where required starting torque is low and motors operate in dusty and humid areas. Rugged and dependable—only one moving part. Round frame motors have 4 extended mounting studs 2" OC, except Nos. 3M361 and 3M291, which have 2 studs 2 3/8" OC. Resilient type motor base has 4 slotted mounting holes 2 3/8 x 3 3/4". All-position mounting sleeve or ball bearings. Rotation shown in table below is facing shaft. Extra-large oil reservoirs. Balanced, die cast rotors. Varnish impregnated windings. Drawn steel cases, gray enamel finish. 18/2, 12" wire leads. Dayton brand.



A



B



C



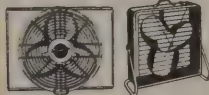
D

Fig.	HP	RPM	Volts 60 Hz	Mounting Studs OC		Bear-ings	—Shaft— Dia. Long	Dia. or Ht.	Length Less Shaft	Over- all Length	Full- Load Amps	Rotation (°)	Stock No.	Each	Shpg. Wt.
A	1/20	1500	115	2"	2"	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4"	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	1.5	CW	5K001	\$13.34	5
A	1/20	1500	115	2	2	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	1.5	CCW	3M063	13.34	5
B	1/20	1500	115	Resilient		Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$ "	7	1.5	CW	5K002	16.26	6
B	1/20	1500	115	Resilient		Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$ "	7	1.5	CW	5K006#	17.48	6
B	1/20	1500	115	Resilient		Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4 $\frac{1}{2}$	5 $\frac{5}{8}$ "	7	1.5	CCW	3M289	16.26	6
A	1/20	1500	115	2	2	Ball	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	1.5	CW	5K004†	18.14	5
A	1/20	1500	115	2	2	Ball	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	1.5	CCW	3M290†	18.10	5
A	1/20	1500	230	2	2	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	0.75	CW	5K003	14.62	5
A	1/20	1500	230	2	2	Ball	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	0.75	CW	3M001†	18.84	5
A	1/20	3000	115	2	2	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	1.5	CW	3M069	12.95	4 $\frac{3}{4}$
C	1/15	1500	115	2 $\frac{3}{4}$ "	—	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{7}{8}$ "	6 $\frac{1}{2}$ "	2.8	CW	3M361	13.52	6
A	1/15	1500	115	2 $\frac{3}{4}$ "	—	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	5	6 $\frac{3}{8}$ "	2.8	CCW	3M291	13.09	6
A	1/15	1500	115	2	2	Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4	4 $\frac{7}{8}$ "	6 $\frac{1}{2}$ "	2.8	CW	3M363	13.72	6
D	1/15	1500	115	Resilient		Slv	$\frac{5}{16}$ 1 $\frac{3}{8}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$ "	5 $\frac{5}{8}$ "	2.8	CW	3M362	17.25	7
D	1/15	1500	115	Resilient		Slv	$\frac{5}{16}$ 2	4 $\frac{1}{2}$	4 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	2.8	CW	3M364#	17.74	7

(†) Has round shaft, others have shaft with flat. (#) Has 5 cubic inch junction box. (*) Facing shaft end.

1/15 and 1/10 HP WINDOW FAN MOTORS

1000 and 1050 RPM/1 and 2 Speeds. For 20" Standard and Space-Saver Fan Blades



\$10.12 Same compact type shaded pole motor now used for most window fans in the field, especially with 20" space-saver type fan blades. All motors 115V, 60 Hz, shaded pole, open construction, air-over fan type. Four mounting studs extend 1/2" beyond nut on end opposite shaft. 4 3/8" dia. bolt circle; bolts spaced 2 1/8" OC horizontally, and 4" OC vertically.

All-position self-aligning sleeve bearings. 3/8" dia. x 1 1/8" long shaft with 1" flat. Automatic reset thermal protection on Models 3M583 and 3M585. Class A insulation. CW rotation facing shaft. Leads are 18 ga. SPT-1 with ends stripped 3/4". 2-speed motors have 3-conductor coded leads. 9 ft. cord on 3M386 has 18 ga. SPT-1, gray plastic cover with 2-speed feed-thru switch 36" from motor. Order No. 6X452 adapter bushing listed below if 1/2" shaft diameter is required. Gray enamel finish. Dayton brand.

HP	RPM	Volts 60 Hz	Studs A	OC B	—Shaft— Dia. Long	Body Dia.	Length Less Shaft	Overall Length	Full- Load Amps	Leads	Stock No.	Each	Shpg. Wt.
1/15	1000	115	2 5/8	4	3 5/8" 1 7/8"	5"	2 1/4"	4 3/8"	2.6	20"	3 M207	\$10.12	5 1/4
1/15	1000/2-Spd.	115	2 5/8	4	3 5/8" 1 7/8"	5	2 1/4"	4 3/8"	2.6	108	3 M386	17.60	6
1/15	1050/2-Spd.	115	2 15/16	3 3/8	3 5/8" 1 7/8"	5	3 3/8"	5 1/8"	2.6	20†	3 M583	13.05	6 3/4
1/10	1050	115	2 15/16	3 3/8	3 5/8" 1 7/8"	5	4 1/8"	5 1/8"	3.4	19	3 M585	15.45	8 3/4

(†) Use with No. 1W315, 12 ft. SJ cord set with two-speed switch.

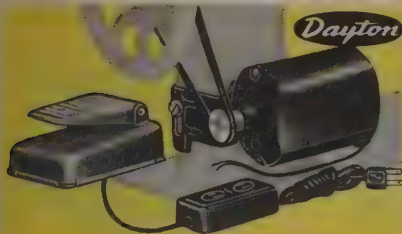
3/8 ID x 1/2" OD ADAPTER BUSHING. For adapting 3/8" shaft on above motors to 1/2" diam-

eter. Has hole for set screw, 1 1/8" long. Wt. 2 oz. No. 6X452. Retail 72c. Each 48c; lots 5.....45c

All motors on this page recognized by UL under the Motor Component Recognition Program

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP

DOMESTIC SEWING MACHINE MOTORIZING KIT



1/15 HP, 115V, AC-DC Motor, Rheostat & Parts
Motorizes Foot-Powered Domestic Machines

\$14.36 For motorizing Singer and most other foot-powered domestic-type sewing machines. Conversion kit contains all necessary parts: 1/15

Lots 6

HP, 115V AC-DC motor, foot-type rheostat, cord-outlet block, pulley, bracket and belt. Easily installed with screws already in use in sewing machine. No special tools required. Motor operates CCW rotation facing shaft. Packed in Point-of-Sale carton that will make easy sales for you. Shpg. wt. 4 lbs.

No. 2X420. 115V Sewing Machine Motorizing Kit. Retail \$22.09. Each \$15.46; lots 6.....\$14.36

SEW. MACH. MOTOR ITEMS

Description	Stock No.	Retail	Each	Lots 12
Pulley, 3/4" dia., 1/8" bore	1X459	\$0.61	\$0.37	\$0.31
Bracket, Singer type	2X126	1.05	.70	.60

AC-DC RHEOSTATS

Foot and Knee Operated Models Available



\$2.23 Low cost, compact rheostat for varying speed of 1/20 Lots 6 and 1/15 HP (1.2 full-load amps max.), 115V, AC-DC motor used on sewing machines and similar devices. Allows infinite variation of motor speed, from off to full, as treadle is depressed. Durable steel housing and treadle, non-skid base. Foot and knee operated models available. Slide-on cover. Individually cartoned. Mercury brand.

Type	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
Foot	2X541	\$3.68	\$2.45	\$2.23	1 1/4
Knee	2X542	4.40	2.93	2.59	1

MOTOR-LIGHT RECEPTACLE



Two-way utility with motor and light receptacles. 6 ft. cord and plug and 40" wire for connecting to sewing machine rheostat. Black plastic. Easily mounted. Shpg. wt. 5 oz.

No. 2X314. Retail \$2.39. Each \$1.59; lots 12, \$1.43

SEWING MACHINE LAMPS



PLATE TYPE, chromed reflector, black plate, cord set and bulb. Shpg. wt. 5 oz.

No. 2X330. All metal. Retail \$3.87. Each \$2.58; lots 12, \$2.16



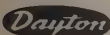
CLAMP-ON Type, chromed finish, has bulb and cord. 8 oz.

No. 2X331. All metal. Retail \$3.86. Each \$2.57; lots 12, \$2.18

BULB

Tubular type bulb for lamps above. Intermediate base.

No. 2X489. Retail \$0.60. Each.....\$0.40



FIVE-FUNCTION ELECTRICAL CIRCUIT ANALYZER



90-DAY LIMITED WARRANTY
See Limited Warranty Policy in Index

\$54.85

Cable Tracing Function

Allows one man to trace circuits, identify leads in remote outlet boxes.



Speeds Installation, Trouble-Shooting, Maintenance Work. Combines all these Functions:

CABLE TRACER One man can trace up to 10 circuits at one time by placing numbered station markers on leads at each outlet, then using meter to check conductors at junction box. Meter indicates number of station marker at other end of circuit.

VOLTMETER Shows voltage measurement accurate within +3% over full scale. Calibrated dual scale, 0-125/250 VAC.

AMMETER Measures 0-30 amps AC; snaps around single conductor without interrupting service.

OHMMETER Mid-scale 0-1000 ohms.

CONTINUITY TESTER Finds open and short circuits in wiring, motors, appliances, etc.

Circuit Analyzer has rugged safety yellow case, and comes ready-to-use with ten station markers, two station holders, set of voltage leads, set of grounding leads, and fused battery attachment—all in leather-like vinyl case. 90 day limited warranty. See limited warranty policy in index. Quantity prices on request. Dayton brand. Shpg. wt. 1 lb.

No. 4X588. Retail \$78.36. Each.....\$54.85

LAMB AC/DC and DC VACUUM MOTORS

5.7" Dia. Blower Housings. Single and 2-Stage Models



\$12.28

No. 2M264
Lots 8

A



B

**LAMB
BRAND**



C

NEW

A B UNIVERSAL AC/DC MOTORS—Designed for vacuum cleaners or pressure air power applications. High quality insulation and fabrication for reliable service. Replace original equipment motors in Dayton dry and wet/dry vacuums, and many other brands. All are 120V, 50/60 Hz, 40°C ambient, Class A insulation, continuous duty, open construction. Precision bearings, permanently lubricated. Blowers are single or 2-stage type, in 5.7" dia. housing. Units may

be mounted in any position. Recognized by UL under the Motor Component Recognition Program.

C DC MOTORS—Designed for use in battery powered equipment supplying 24 or 36 volts DC. These motors are DC series wound, 40°C ambient, Class A insulation, continuous duty, open construction. Precision dual ball bearings are pre-lubricated. Blowers are two-stage in 5.7" dia. housing. Units may be mounted in any position.

120 VOLT, 50/60 Hz UNIVERSAL AC/DC VACUUM MOTORS

Fig.	Bearings	CFM with 2" Orifice	Vacuum (In. H ₂ O Sealed)	Stages	Ht.	Max. Amps	Lamb Model	Stock No.	Retail	Each	Lots 8	Shpg. Wt.
A	Ball-Ball	100	85"	2, Thru-Flow	5 3/4"	6.8	115750	2M262	\$29.46	\$19.30	\$17.36	5 1/2
A	Ball-Slv	95	85	2, Thru-Flow	5 1/2"	7.4	115737	2M263	26.95	17.65	15.88	5 1/2
A	Ball-Slv	100	55	1, Thru-Flow	4 1/2"	6.4	115717	2M264	20.85	13.66	12.28	4 1/2
B	Ball-Slv	100	80	2, By pass	6 3/4"	7.6	115757	2M265	31.83	21.25	19.13	5
B	Ball-Slv	100	50	1, By pass	5 1/2"	6.0	115706	2M266	24.22	15.86	14.27	4 1/2

NEW

24 and 36 VOLT DC VACUUM MOTORS

Fig.	Volts	CFM with 2" Orifice	Vacuum (In. H ₂ O Sealed)	Ht.	Max. Amps	Lamb Model	Stock No.	Retail	Each	Lots 8	Shpg. Wt.
C	24 DC	72	50	6 3/4"	14.8	115460	2M175	\$63.56	\$41.70	\$37.50	5 1/2
C	36 DC	73	50	6 3/8"	13.0	115537	2M176	60.73	39.84	35.83	5 1/2



REPLACEMENT BRUSH MECHANISM, SET OF 2. Fits Nos. 2M262, 2M263, 2M264, 2M265 and 2M266 vac motors above. Wt. 2 oz.

No. 1R236. Retail \$2.40. Per Pair \$1.60; lots 8, pairs.....\$1.30

LAMB MOTOR MODEL REPLACEMENT CROSS-REFERENCE

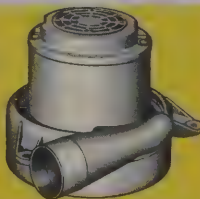
Lamb Model:	14750	14809	115250	115346	115407	115409	115457	115697	115698	115701
Replace with:	2M262	2M265	2M262	2M264	2M265	2M263	2M265	2M265	2M266	2M264

COMMERCIAL AND INDUSTRIAL LAMB VACUUM MOTORS

7.2" Diameter Blower Housings. 2-Stage Blowers. Peripheral or Tangential Discharge



**Peripheral
No. 2M173**



**Tangential
No. 2M174**

\$46.30

No. 2M173
Lots 8

Lamb high-vacuum motors designed for applications requiring high sealed vacuum and high air flow at large orifices. Used in commercial vacuum cleaners, coin-operated carwash vacuum cleaners, welding fume evacuators and similar equipment. Not for applications where water can pass through fan or motor.

Units have Universal AC/DC 120V, 60/50 Hz motors, rated 40°C ambient, Class A insulation, open construction. Precision dual ball bearings, permanently lubricated. All-angle mounting. Blowers are two-stage type, peripheral or tangential discharge, in 7.2" diameter housings.

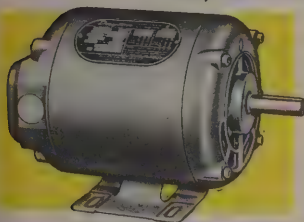
Recognized by Underwriters' Laboratories under the Motor Component Recognition Program.

Discharge	Bearings	CFM with 2" Orifice	Vacuum (In. H ₂ O Sealed)	Height	Max. Amps	Lamb Model	Stock No.	Retail	Each	Lots 8	Shpg. Wt.
Peripheral	Ball-Ball	115	110	6 1/2"	13.0	115380	2M173	\$77.93	\$51.53	\$46.30	7 1/2
Tangential	Ball-Ball	100	110	6 1/2"	13.1	115334	2M174	80.51	53.24	47.84	7 1/2

1/4 to 1 1/2 HP, DRIPPROOF, NEMA 56 & 56H 3-PHASE

40°C Rise, 208-220/440V, 50/60 Hz & 40°C Ambient, 230/460V, 60 Hz Models

1140, 1725 & 3450 RPM Models, Rigid and Resilient Mounted



Dayton

\$47.63

No. 2N101

types. Class A insulation. Rolled-steel frames with open, drip-proof endbells. NEMA 56 frames, shaft rotation easily reversed by electrical reconnection.

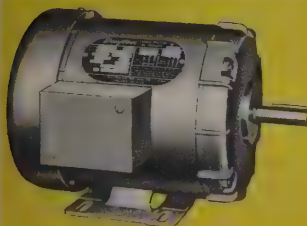
Dynamically balanced precision rotors. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray lacquer finish. Dayton brand.

DRIPPROOF, 3-PHASE DAYTON MOTORS

HP	RPM	Type Mounting	NEMA Frame (See p. 16)	Shaft Dia.	40°C Rise, 50/60 Hz (\$) 208-220/440V				40°C Ambient, 60 Hz Only 230/460V (\$) Designed for use in locations where ambient (area) temperature does not exceed 40°C (104°F)			
					Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Retail	Each	Shpg. Wt.
1/4	1140	Rigid	56	5/8"	2N878	\$96.75	\$63.34	20	—	—	—	—
	1725	Rigid	56	5/8"	2N101	72.75	47.63	17	—	—	—	—
1/3	1140	Rigid	56	5/8"	2N879	102.75	67.27	21	—	—	—	—
	1725	Rigid	56	5/8"	2N102	75.75	49.59	17	3N040	\$73.50	\$48.12	17
	1725	Resilient	56	5/8"	3N026	77.25	50.57	18	—	—	—	—
1/2	1140	Rigid	56	5/8"	2N880	113.25	74.14	26	—	—	—	—
	1725	Rigid	56	5/8"	2N103	85.50	55.97	19	3N041	83.25	54.50	22
	1725	Resilient	56	5/8"	3N027	87.00	56.96	22	—	—	—	—
3/4	1140	Rigid	56	5/8"	3N316	117.00	76.60	30	—	—	—	—
	1725	Rigid	56	5/8"	2N104	95.25	62.36	23	3N042	93.00	60.88	24
1	1725	Rigid	56H	5/8"	3N012	97.50	63.83	27	3N043	95.25	62.36	25
	3450	Rigid	56	5/8"	3N178	87.75	57.45	22	—	—	—	—
1 1/2	1725	Rigid	56H	5/8"	3N013	108.00	70.70	33	—	—	—	—

(*) 40°C rise models also operate on 50 Hz, 220/440V; 50°C rise, 1.0 service factor, continuous duty at 5/6 of 60 Hz speed. (\$) 40°C ambient motors for 208V, 60 Hz available on special order.

1/4 to 1 1/2 HP TEFC NEMA 56 & 56H 3-PHASE MOTORS



Dayton

\$53.52

1/4 HP

1140, 1725 & 3450 RPM, 208-220/440V & 575V
350% Starting Torque. Ball Bearings

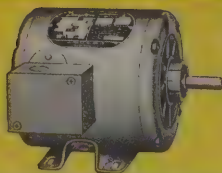
Totally enclosed, fan-cooled Dayton 3-phase motors for heavy-duty applications in dirty, oily, moist and other adverse atmospheres. 350% starting torque. Used on air compressors, machinery, pumps, conveyors, blowers, fans, etc. Dynamically balanced, precision rotors. Aluminum end brackets. 208-220/440V & 575V, 60 Hz, rigid mount, ball bearings. 40°C ambient, 1.0 service factor. Class A insulation (55°C rise), continuous duty. 1/4, 1/3 and 1/2 HP, 1725 RPM motors, except 575V models are also rated 1425 RPM, 220/440V, 50 Hz, in a maximum ambient of 30°C. NEMA 56 frames. Rotation easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

HP	RPM	Volts 60 Hz	NEMA Frame	Shaft Dia.	Full-Load Amps @220V	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	208-220/440*	56	5/8"	1.4	2N863	\$81.75	\$53.52	17
1/3	1140	208-220/440	56	5/8"	1.8	2N925	111.75	73.16	26
	1725	208-220/440*	56	5/8"	1.4	2N864	84.75	55.48	19
1/2	1140	208-220/440	56	5/8"	2.1	2N926	122.25	80.03	26
	1725	208-220/440*	56	5/8"	2.0	2N865	94.50	61.87	20
	1725	575	56	5/8"	0.77†	3N314	92.25	60.39	22
3/4	1725	208-220/440	56	5/8"	2.7	2N866	104.25	68.25	24
	1725	575	56	5/8"	1.03†	3N328	104.25	68.25	24
1	1725	208-220/440	56H	5/8"	3.4	3N017	106.50	69.72	29
	3450	208-220/440	56H	5/8"	3.4	3N317	96.75	63.34	23
1 1/2	1725	208-220/440	56H	5/8"	4.8	3N018	117.00	76.60	34

(*) Also rated 1425 RPM, 220/440V, 50 Hz, in maximum ambient of 30°C. (†) Full-load amps at 575V.

SEE WARRANTY INFORMATION ON PAGE 684

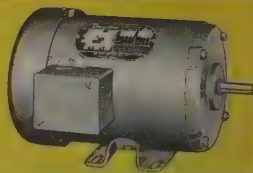
1/4 to 3/4 HP, 3-PHASE, NEMA 48 TENV & TEFC MOTORS



1725 RPM, 230/460V, 60 Hz
Totally Enclosed, Non-Ventilated and
Totally Enclosed, Fan-Cooled Models

\$47.14
1/4 HP

Dayton



Totally enclosed, high starting torque Dayton motors for heavy duty applications in dirty, oily, moist and other adverse atmospheres. Used on air compressors, machinery, pumps, conveyors, blowers, fans, farm applications and many other continuous duty jobs. Aluminum

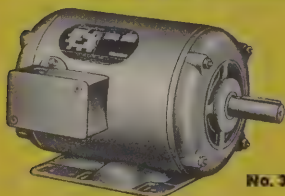
end bells, stamped steel base. 1/4 to 3/4 HP, 1725 RPM, 230/460V, 60 Hz, rigid mount, ball bearings, 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty. Rotation easily reversed by electrical reconnection. CSA approved. Gray finish. Dayton brand.

HP	RPM	Volts 60 Hz	NEMA Frame	Enclosure Type	Insulation Class	Shaft Dia.	Full-Load Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
1/4	1725	230/460	48	TENV	B	3/8"	1.11	3N349	\$72.00	\$47.14	15
1/3	1725	230/460	48	TENV	B	3/8"	1.24	3N350	75.00	49.10	17
1/2	1725	230/460	48	TEFC	B	3/8"	1.90	3N351	84.75	55.48	18
3/4	1725	230/460	48	TEFC	B	3/8"	2.50	3N352	94.50	61.87	22

56HZ COMBINATION BASE 3-PHASE MOTORS

NEMA 56HZ, 143T & 145T Frame. Open, Dripproof Models: 1 to 2 HP, 1800 RPM, 208-220/440V, 60 Hz

Totally Enclosed, Fan-Cooled Models: 1 to 2 HP, 1800 RPM, 230/460 & 575V, 60 Hz



\$64.32
No. 3N251

Dayton

No. 3N251



No. 3N285

Special base design of NEMA 56HZ frame 3-phase motors has holes and slots to match NEMA 56, 56H, 143T and 145T mounting dimensions. Built for use on general purpose applications—pumps, compressors, blowers, tools, etc. Open, dripproof models are 1800 RPM, 208-220/440V, 60°C rise, 60 Hz. Totally enclosed, fan-

cooled models are 1800 RPM, 230/460 or 575V, 60 Hz, 75°C rise. Double-shielded, prelubricated ball bearings. All are 40°C ambient, Class B insulation, continuous duty. NEMA 56HZ frame with combination base. 7/8" dia. x 2 1/4" long keyed shaft. Rotation easily reversed by electrical reconnection. CSA approved. Gray. Dayton brand.

Order Complete with Dayton Magnetic or Manual Thermal Protected Starter

DRIPPROOF, 1 TO 2 HP, 1800 RPM, 1.15 SERVICE FACTOR

HP	Volts 60 Hz	NEMA Frame (See p. 18)	Shaft Dia.	Full-Load Amps @220V	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	208-220/440	56HZ	7/8"	3.8	3N251	\$98.25	\$64.32	27	7N573	\$114.68	7N576	\$98.56
1 1/2	208-220/440	56HZ	1"	5.0	3N252	108.75	71.20	31	7N574	121.56	7N577	105.44
2	208-220/440	56HZ	1 1/8"	6.2	3N253	119.25	78.07	35	7N575	128.43†	7N578	112.31

TEFC, 1 TO 2 HP, 1800 RPM, 1.0 SERVICE FACTOR

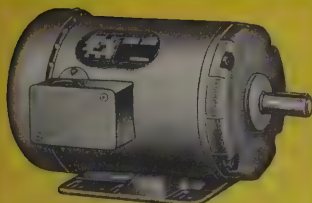
HP	Volts 60 Hz	NEMA Frame (See p. 18)	Shaft Dia.	Full-Load Amps @230V	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	230/460	56HZ	7/8"	3.6	3N285	\$110.25	\$72.18	28	7N641	\$122.54	7N644	\$106.42
1 1/2	230/460	56HZ	1"	4.8	3N286	120.00	78.56	32	7N642	128.92	7N645	112.80
2	230/460	56HZ	1 1/8"	6.0	3N287	131.25	85.93	36	7N643	136.29†	7N646	120.17
1	575	56HZ	7/8"	1.4†	3N323	110.25	72.18	29	7N688	131.38	7N693	106.42
1 1/2	575	56HZ	1"	1.9†	3N324	120.75	79.05	32	7N689	138.25	7N694	113.29
2	575	56HZ	1 1/8"	2.4†	3N325	131.25	85.93	39	7N690	145.13	7N695	120.17

(*) Prices are for motors complete with 208, 220, 440 or 575 thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 208 or 220V is specified.

(‡) Full-load amps at 575 volts

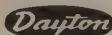
All motors on page recognized by UL for construction under Motor Component Recognition Program

575 VOLT TEFC 3-PHASE MOTORS



Shown: No. 3N323

NEMA 56, 56HZ, 182T and 184T Frame Sizes
1/2 to 5 HP, 1725 & 1800 RPM, 575V, 60 Hz. Ball Bearings



\$60.39

No. 3N314

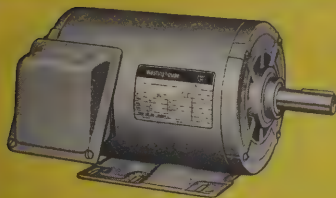
Totally enclosed, fan-cooled 3-phase motors for general-purpose applications in dirty, oily, moist and other adverse atmospheres. Used on air compressors, machinery, pumps, farm equipment, conveyors and other continuous duty jobs. All models have rigid base; double-shielded, pre-lubricated ball bearings; and dynamically balanced, precision rotors. 40°C maximum ambient. 1.0 service factor, Class A or B insulation (see table), continuous duty. Rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray enamel finish. Dayton brand.

HP	RPM	Volts 60 Hz	NEMA Frame (See P. 16)	Shaft Dia.	Long	Full-Load Amps at 575V	°C Rise	Insu- lation Class	Stock No.	Retail	Each	Shpg. Wt.
1/2	1725	575	56	5/8"	1 1/8"	.77	55	A	3N314	\$92.25	\$60.39	22
3/4	1725	575	56	5/8"	1 1/8"	1.0	55	A	3N328	104.25	68.25	24
1	1800	575	56HZ†	5/8"	2	1.4	75	B	3N323	110.25	72.18	29
1 1/2	1800	575	56HZ†	5/8"	2	1.9	75	B	3N324	120.75	79.05	32
2	1800	575	56HZ†	5/8"	2	2.4	75	B	3N325	131.25	85.93	39
3	1800	575	182T	1 1/8"	2 1/2"	3.4	75	B	3N326	156.80	123.48	57
5	1800	575	184T	1 1/8"	2 1/2"	5.2	75	B	3N327	182.40	143.64	78

(†) Special base design of NEMA 56HZ frame has holes and slots to match NEMA 56, 56H, 143T and 145T mounting dimensions.

56 HZ COMBINATION BASE 3-PHASE MOTORS

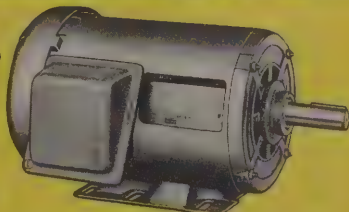
NEMA 56HZ, 143T and 145T Frame. 1 to 3 HP, 1800 RPM, 230/460V, 60 Hz
40°C Ambient, Class B Insulation, Continuous Duty. Double Shielded Ball Bearings



OPEN, DRIPPROOF

\$66.29

1 HP, Open,
Dripproof



TOTALLY ENCLOSED, FAN-COOLED

Designed and built by Westinghouse to meet the latest NEMA motor standards. 1 to 3 HP 3-phase motors for general-purpose applications on blowers, farm applications, machinery, pumps, conveyors, etc. 1800 RPM, 230/460V, 60 Hz. Rigid base. Double-shielded, prelubricated ball bearings. 40°C maximum ambient. Open dripproof models are 60°C rise; TEFC models, 75°C rise. Class B insulation, continuous duty. Open, dripproof and totally enclosed, fan-cooled

construction with aluminum end brackets. Shaft is phosphate treated to resist corrosion. Special base design of NEMA 56HZ frame has mounting holes and slots for NEMA 56, 56H, 143T and 145T mounting dimensions. 5/8" dia. x 2 1/2" long keyed shaft, 3 1/2" shaft height. Shaft rotation easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Westinghouse brand.

DRIPPROOF, 230/460V, 60 Hz, 1.15 SERVICE FACTOR								COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP	Full-Load Amps @230V	NEMA Frame (See P. 16)	Westing- house Style No.	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Each*	Stock No.	Each*
1	3.6	56HZ	313P161	3N014	\$98.25	\$66.29	29	7N422	\$116.65	7N425	\$100.53
1½	6.0	56HZ	313P246	3N015	108.75	73.37	30	7N423	123.73	7N426	107.61
2	6.8	56HZ	313P181	3N016	119.25	80.45	36	7N424	130.81†	7N427	114.69
3	9.5	56HZ	313P193	3N313	124.50	84.00	44	7N652	143.40	7N653	118.24
TEFC, 230/460V, 60 Hz, 1.0 SERVICE FACTOR											
1	3.6	56HZ	313P162	3N310	\$110.25	\$74.38	31	7N654	\$124.74	7N655	\$108.62
1½	4.3	56HZ	313P174	3N311	120.75	81.47	40	7N656	131.83	7N657	115.71
2	5.8	56HZ	313P182	3N312	131.25	88.55	41	7N658	138.91†	7N659	122.79

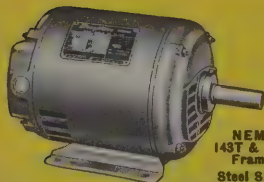
(*) Prices shown are for motors with 230 or 460V thermal overload protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 230V is specified.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

SEE WARRANTY INFORMATION ON PAGE 684

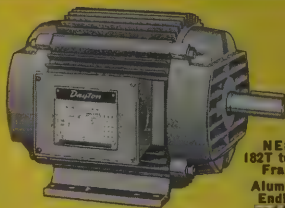
DRIPPROOF 3-PHASE T-FRAME DAYTON MOTORS

1 to 50 HP, 1800, 1200 and 3600 RPM, 230/460V, 60 Hz

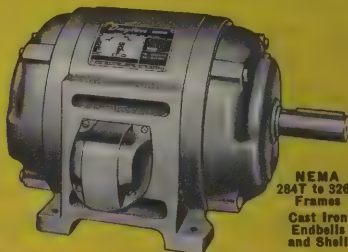


NEMA 143T & 145T Frames
Steel Shell,
Aluminum Endbells

\$78.12
1 HP
1800 RPM
NEMA DESIGN B STARTING TORQUE



NEMA 182T to 256T Frames
Aluminum Endbells and Shell



NEMA 284T to 326T Frames
Cast Iron Endbells and Shell

Dayton quality-built, longer-life 3-phase motors are built in accordance with the latest NEMA Motor Standards. NEMA Design B, for general-purpose applications—pumps, blowers, compressors, conveyors, farm jobs, etc.

NEMA 143T and 145T frame models have single-shielded permanently lubricated ball bearings. NEMA 182T frame and larger models have factory-lubricated ball bearings with provision for re-lubrication.

40°C maximum ambient, 1.15 service factor, Class B insulation (60°C rise), continuous duty. Open, dripproof construction. Shaft rotation easily reversed by electrical reconnection. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray enamel finish. Dayton brand.

**PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS**

1 TO 50 HP, 1800 RPM, 230/460V, 60 Hz										COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP (See p. 16)	NEMA Frame	Shaft Dia.	Base to Shaft	Full-Load Amps @ 230V	Stock No.	Retail	Each	Shpg. Wt.		Stock No.	Each*	Stock No.	Each*
1	143T	3/4	3 1/2	3.8	2N973	\$99.20	\$78.12	31		7N407	\$128.48	7N416	\$112.36
1 1/2	145T	1	3 1/2	5.4	2N974	108.80	85.68	31		7N408	136.04	7N417	119.92
2	145T	1 1/8	3 3/4	6.8	2N975	120.00	94.50	34		7N409	144.86†	7N418	128.74
3	182T	1 1/2	4 1/2	9.2	3N220	124.80	98.28	56		7N544	157.68†	7N546	132.52
5	184T	1 3/4	4 3/4	13.8	3N221	140.80	110.88	65		7N545	170.28†	7N547	145.12†
7 1/2	213T	1 3/8	5 1/4	20.8	2N978	215.04	168.96	82		7N412	234.82	7N421	209.66
10	215T	1 3/8	5 1/4	27.8	2N979	260.40	204.60	95		7N413	270.46†	7N635	245.30†
15	254T	1 3/8	6 1/4	40.0	3N010	347.76	273.24	150		7N414	358.48†	—	—
20	256T	1 3/8	6 1/4	52.2	3N011	436.80	343.20	171		7N415	460.74†	—	—
25	284T	1 3/4	7	62.8	3N029	517.44	406.56	280		7N448	524.10†	—	—
30	286T	1 3/4	7	78.0	3N030	606.48	476.52	293		7N449	663.83	—	—
40	324T	2 1/8	8	102.0	3N031	762.72	599.28	407		7N450	786.59†	—	—
50	326T	2 1/8	8	124.0	3N032	922.32	724.68	421		7N451	911.99†	—	—
50	326TS	2 1/8	8	124.0	3N038	922.32	724.68	467		7N452	911.99†	—	—

1 TO 5 HP, 1200 RPM, 230/460V, 60 Hz										COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP	NEMA Frame	Shaft Dia.	Base to Shaft	Full-Load Amps @ 230V	Stock No.	Retail	Each	Shpg. Wt.		Stock No.	Each*	Stock No.	Each*
1	145T	3/4	3 1/2	4.2	3N019	\$128.00	\$100.80	34		7N428	\$151.16	7N433	\$135.04
1 1/2	182T	1 1/8	4 1/2	6.0	3N222	140.80	110.88	56		7N563	161.24	7N565	145.12
2	184T	1 1/4	4 1/2	7.7	3N223	144.00	113.40	57		7N564	163.76†	7N566	147.64
3	213T	1 1/2	5 1/4	10.7	3N022	188.16	147.84	78		7N431	207.24	7N436	182.08
5	215T	1 3/8	5 1/4	16.8	3N023	257.04	201.96	98		7N432	261.36†	7N437	242.66†

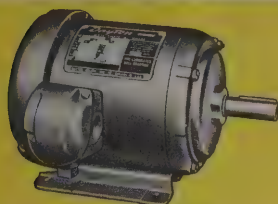
1 1/2 TO 5 HP, 3600 RPM, 230/460V, 60 Hz										COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP	NEMA Frame	Shaft Dia.	Base to Shaft	Full-Load Amps @ 230V	Stock No.	Retail	Each	Shpg. Wt.		Stock No.	Each*	Stock No.	Each*
1 1/2	143T	3/4	3 1/2	4.4	3N083	\$108.80	\$85.68	25		7N474	\$136.04	7N478	\$119.92
2	145T	1	3 1/2	5.7	3N084	128.00	100.80	29		7N475	151.16†	7N479	135.04
3	145T	1 1/8	3 3/4	8.1	3N085	144.00	113.40	35		7N476	172.80	7N480	147.64
5	182T	1 1/2	4 1/2	13.0	3N086	174.40	137.34	52		7N477	196.74†	7N481	178.04†

(*) Prices shown are for motors with 230 or 460V thermal protected starters. Specify voltage. Stop-start starter included with magnetic starters. (†) Price is slightly higher where 230V is specified. (‡) Starter for 460V only (‡) NEMA 326TS frame for direct drive applications, shaft length 3 3/4".

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

TOTALLY ENCLOSED 3-PHASE T-FRAME DAYTON MOTORS

1 to 50 HP, 1800, 1200 & 3600 RPM, 230/460 or 575V, 60 Hz



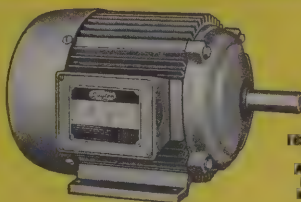
NEMA 143T & 145T Frames
Steel Shell, Aluminum Endbells

\$90.72

1 HP

NEMA
DESIGN B
STARTING
TORQUE

Dayton

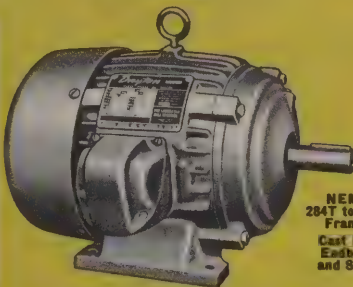


NEMA
182T to 286T
Frames
Aluminum
Endbells
and Shell

Dayton 3-phase totally-enclosed and externally fan-cooled motors for operation in dusty, oily, and mildly corrosive atmospheres. Built in accordance with latest NEMA motor standards. Design B characteristics for general purpose applications, such as pumps, blowers, compressors, conveyors, farm machinery, etc.

NEMA 143T and 145T frames have permanently lubricated ball bearings. NEMA 182T and larger frames have factory-lubricated ball bearings with provision for re-lubrication. 40°C maximum ambient, 1.0 service factor, Class B insulation, (75°C rise), continuous duty. Reversible rotation. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Dayton brand.

For Explosion-Proof 3-Phase Motors, see
Index Under Motors, Explosion-Proof



NEMA
284T to 326T
Frames
Cast Iron
Endbells
and Shell

PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS

1 TO 50 HP, 1800 RPM, 230/460 or 575V, 60 Hz										COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP (See p. 16)	NEMA Frame Dia.	Shaft 60 Hz	Volts 230V	Full-Load Amps @ 230V	Stock No.	Retail	Each	Shpg. Wt.		Stock No.	Each*	Stock No.	Each*
1	143T	3/8	230/460	3.8	3N033	\$115.20	\$90.72	31		7N438	\$141.08	7N443	\$124.96
1 1/2	145T	3/8	230/460	5.6	3N034	128.00	100.80	35		7N439	151.16	7N444	135.04
2	145T	3/8	230/460	6.2	3N035	140.80	110.88	36		7N440	161.24†	7N445	145.12
3	182T	1 1/8	230/460	9.0	3N036	156.80	123.48	59		7N441	182.88	7N446	157.72
3	182T	1 1/8	575	3.4§	3N326	156.80	123.48	37		7N691	191.72	7N696	157.72
5	184T	1 1/8	230/460	14.0	3N037	182.40	143.64	64		7N442	203.04†	7N447	177.88†
5	184T	1 1/8	575	5.2§	3N327	182.40	143.64	78		7N692	211.88	7N697	177.88
7 1/2	213T	1 3/8	230/460	21.3	3N071	260.40	204.60	96		7N482	263.39†	7N485	245.30
10	215T	1 3/8	230/460	27.0	3N072	314.16	246.84	124		7N483	312.70†	7N636	287.54†
15	254T	1 3/8	230/460	40.2	3N073	420.00	330.00	186		7N484	415.24†	—	—
20	256T	1 3/8	230/460	52.2	3N254	527.52	414.48	214		7N600	532.02†	—	—
25	284T	1 3/8	230/460	60.2	3N255	640.08	502.92	338		7N601	620.46†	—	—
30	286T	1 3/8	230/460	71.4	3N256	754.32	592.68	383		7N602	779.99	—	—
40	324T	2 1/8	230/460	93.6	3N257	1006.32	790.68	530		7N603	977.99	—	—
50	326T	2 1/8	230/460	120.0	3N258	1280.16	1005.84	585		7N604	1193.15	—	—
1 TO 5 HP, 1200 RPM, 230/460V, 60 Hz													
1	145T	3/8	230/460	4.1	3N074	\$144.00	\$113.40	38		7N486	\$163.76	7N491	\$147.64
1 1/2	182T	1 1/8	230/460	6.0	3N075	153.60	120.96	62		7N487	171.32	7N492	155.20
2	184T	1 1/8	230/460	7.7	3N076	169.60	133.56	61		7N488	183.92†	7N493	167.80
3	213T	1 3/8	230/460	10.8	3N077	223.44	175.50	86		7N489	234.96	7N494	209.80
5	215T	1 3/8	230/460	17.0	3N078	327.60	257.40	106		7N490	316.80†	7N495	291.64†
1 1/2 TO 5 HP, 3600 RPM, 230/460V, 60 Hz													
1 1/2	143T	3/8	230/460	4.6	3N079	\$118.40	\$93.24	27		7N496	\$143.60	7N500	\$127.48
2	145T	3/8	230/460	5.4	3N080	137.60	108.36	30		7N497	158.72†	7N501	142.60
3	182T	1 1/8	230/460	8.3	3N081	161.60	127.26	47		7N498	186.66	7N502	161.50
5	184T	1 1/8	230/460	13.4	3N082	200.00	157.50	54		7N499	216.90	7N503	191.74†

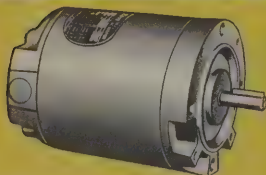
(*) Prices shown are for motors with 230 and 460V thermal protected starters; magnetic starters supplied with 575V models have 575V operating coil. Specify voltage. Start-stop station included with magnetic starters.
(†) Price slightly higher where 230V is specified. (‡) Starter available only for 460V. (§) Amps @ 575V.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

SEE WARRANTY INFORMATION ON PAGE 684

1/3 to 2 HP FHP 3-PHASE 56C FACE MOUNT MOTORS

1/3 to 2 HP, 1725 RPM, Open and Enclosed Models
208-220/440V, 50/60 Hz, and 230/460V, 60 Hz



Dayton

\$51.56

No. 2N913

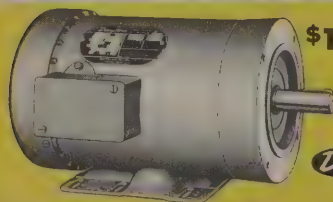
Heavy-duty open and enclosed motors for direct drive jobs—pumps, machine tools, speed reducers and others that require NEMA 56C face mounting. 1/3 to 2 HP 3-phase models, 1725 RPM. Double-shielded, pre-lubricated ball bearings. Class A insulation. 40°C rise, open dripproof, and 55°C rise, totally enclosed, fan-cooled, continuous-duty motors are rated 208-220/440V, 50/60 Hz. (°). 40°C ambient motors are rated 230/460V, 60 Hz. 5/8" dia x 1 1/8" shaft with keyway. Reversible rotation. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

HP	Volts (°)	OPEN, DRIPPROOF MODELS					TOTALLY-ENCLOSED, FAN-COOLED				
		Stock No.	Temperature Rating	Retail	Each	Shpg. Wt.	Stock No.	Temperature Rating	Retail	Each	Shpg. Wt.
1/3	208-220/440	2N913	40°C Rise	\$78.75	\$51.56	18	2N915	55°C Rise	\$87.75	\$57.45	18
1/2	208-220/440	2N914	40°C Rise	82.50	54.01	19	2N916	55°C Rise	91.50	59.90	24
3/4	208-220/440	2N923	40°C Rise	97.50	63.83	23	2N924	55°C Rise	106.50	69.72	23
1	230/460	3N028	40°C Amb.	99.00	64.81	26	3N087	40°C Amb.	108.00	70.70	25
1 1/2	230/460	—	—	—	—	—	3N265	40°C Amb.	118.50	77.58	33
2	230/460	—	—	—	—	—	3N266	40°C Amb.	129.00	84.45	34

(*) 40°C and 55°C rise, 208-220/440V motors also operable on 50 Hz, 220/440V; 50°C rise on dripproof type, 65°C rise on enclosed type, continuous duty at 5/6 of 60 Hz speed.

1 to 10 HP TEFC 3-PHASE BASE MOUNTED C-FACE MOTORS

1 to 10 HP, 1800 RPM, 230/460V, 60 Hz. Double-Shielded Ball Bearings

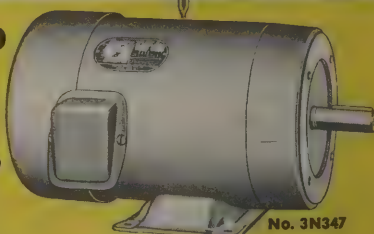


\$107.10

1 HP

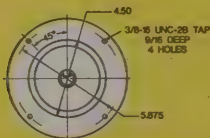
Dayton

No. 3N342

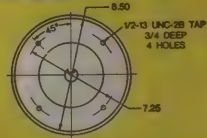


No. 3N347

**NEMA
143TC and 145TC
FACE
DIMENSIONS**



**NEMA
182TC to 215TC
FACE
DIMENSIONS**



Dayton 3-phase integral HP NEMA C-face motors for applications where driven equipment is directly connected to the motor. NEMA design B for general purpose applications such as pumps, speed reducers, adjustable speed drives, machine tools and other direct-drive equipment accepting NEMA C mounting faces.

1 to 10 HP, 1800 RPM, 230/460V, 60 Hz. Rigid steel base, NEMA C mounting faces—see drawings above.

NEMA 143T to 215T mounting and shaft dimensions; see p. 16. Double shielded, pre-lubricated ball bearings. 40°C ambient, 1.0 service-factor, Class B insulation (75°C rise), continuous duty. Rotation easily reversed by electrical reconnection.

Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

1 to 10 HP, 1800 RPM, 230/460V, 60 Hz							COMPLETE WITH MAGNETIC STARTER		COMPLETE WITH MANUAL STARTER		
NEMA Frame (See p. 16)		Shaft Dia.	Full-Load Amps@ 230V	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Each*	Stock No.	Each*
1	143TC	7/8"	3.6	3N342	\$136.00	\$107.10	33	7N674	\$157.46	7N681	\$141.34
1½	145TC	7/8"	4.8	3N343	148.80	117.18	37	7N675	167.54	7N682	151.42
2	145TC	1"	6.0	3N344	161.60	127.26	41	7N676	177.62‡	7N683	161.50
3	182TC	1½"	8.4	3N345	185.60	146.16	72	7N677	205.56	7N684	180.40
5	184TC	1½"	13.0	3N346	211.20	166.32	90	7N678	225.72‡	7N685	200.56
7½	213TC	1¾"	20.2	3N347	304.08	238.92	120	7N679	304.78	7N686	279.62
10	215TC	1¾"	26.0	3N348	357.84	281.16	136	7N680	347.02‡	7N687	321.86

(*) Prices are for motors with 230 or 460V thermal protected starters. Specify voltage. Start-stop station includes with magnetic starters. (†) Prices slightly higher where 230V is specified. (‡) Starter available for 460V only.

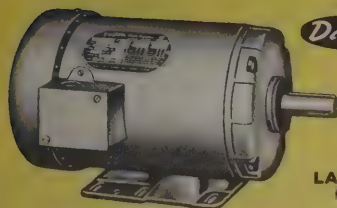
1 TO 10 HP 3-PHASE FARM DUTY MOTORS

1800 RPM, 230/460V, 60 Hz. NEMA Design B. Totally Enclosed, Fan-Cooled Construction

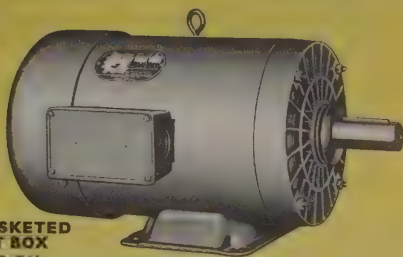
\$87.84

1 HP

Dayton



**NEMA
143T and 145T Frames**



**NEMA
182T to 215T Frames**

**LARGE, GASKETED
CONDUIT BOX
SLINGER ON
SHAFT END
DOUBLE-SHIELDED
PRE-LUBRICATED
BALL BEARINGS**

Dayton totally enclosed, fan-cooled 3-phase farm duty motors designed specifically to drive such equipment as air compressors, conveyors, augers, grain elevators, pumps, blowers, etc., in areas where 3-phase power is available. NEMA Design B, for general-purpose applications. Totally enclosed, fan-cooled construction, for use in dusty, dirty and wet atmospheres.

1 to 10 HP, 1800 RPM, 230/460V, 60 Hz. Rigid steel base, pre-lubricated, double-shielded ball bearings. 40°C ambient, 1.0 service factor, Class

B insulation (75°C rise), continuous duty. Rotation easily reversed by electrical reconnection.

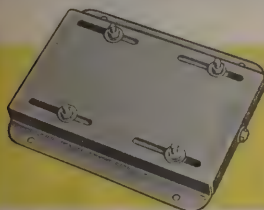
Die cast aluminum end bells for rigidity and firm bearing support. Slinger on shaft end. 1, 1½ and 2 HP have gasketed steel conduit box. 3 to 10 HP motors have gasketed die cast aluminum conduit box. 5 to 10 HP motors have eye bolt for easy handling. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Farm machinery green finish. Dayton brand.

1 to 10 HP, 1800 RPM, 230/460V, 60 Hz

HP (See p. 18)	NEMA Frame	Shaft Dia.	Base to Shaft	Full- Load Amps@ 230V	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE WITH MAGNETIC STARTER		COMPLETE WITH MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1	143T	2 1/8"	3 1/2"	3.6	3N335	\$110.88	\$87.84	27	7N660	\$138.20	7N667	\$122.08
1 1/2	145T	2 1/8"	3 1/2"	4.8	3N336	123.20	97.60	32	7N661	147.96	7N668	131.84
2	145T	2 1/8"	3 1/2"	6.0	3N337	135.52	107.36	36	7N662	157.72†	7N669	141.60
3	182T	1 1/2"	4 1/2"	9.0	3N338	150.92	119.56	57	7N663	178.96	7N670	153.80
5	184T	1 1/2"	4 1/2"	13.0	3N339	175.56	139.08	79	7N664	198.48†	7N671	173.32†
7 1/2	213T	1 1/2"	5 1/2"	20.2	3N340	248.00	195.30	117	7N665	261.16	7N672	236.00
10	215T	1 1/2"	5 1/2"	26.0	3N341	299.20	235.62	127	7N666	301.48	7N673	276.32

(*) Prices shown are for motors with 230 or 460V, thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price slightly higher where 230V is specified.

(‡) Starter available for 460V only.



ADJUSTABLE STEEL MOTOR BASES

\$8.71

No. 3M276

Dayton

**In Sizes to Fit NEMA 56 to 215T Frames
Simplify Mounting, Belt Tension Adjustment**

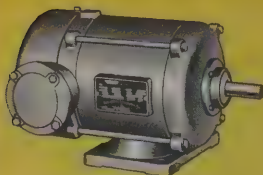
One-piece steel mounting bases, in sizes for NEMA 56 to 215T frame motors. Have single adjusting bolt with push-pull feature that facilitates adjustment of belt tension, both when installing motor and during later maintenance checks. Motor mounting bolts included. Gray finish. Dayton brand.

For NEMA Frame	High	—Dimensions—		Bolt Size	Stock No.	Retail	Each	Shpg. Wt.
		Wide	Long					
56	1 1/8"	6 1/2"	10 3/4"	5/16"	3M276	\$13.07	\$8.71	3
143T	1 1/8"	7 1/2"	10 1/2"	5/16"	3M277	14.84	9.89	5
145T	1 1/8"	8 1/2"	10 1/2"	5/16"	3M278	14.96	9.97	5
182 & 182T	1 1/2"	9 1/2"	12 3/4"	3/8"	3M279	18.36	12.24	9
184 & 184T	1 1/2"	10 1/2"	12 3/4"	3/8"	3M280	19.16	12.77	10
213 & 213T	1 1/2"	11"	15"	3/8"	3M281	23.48	15.65	14
215 & 215T	1 1/2"	12 1/2"	15"	3/8"	3M282	25.46	16.97	15

1,297 ELECTRIC MOTOR TYPES Available at Grainger's for Immediate Delivery
You Are Served by Experienced Supply People Who Know Your Motor Needs

SEE WARRANTY INFORMATION ON PAGE 684

EXPLOSION-PROOF 3-PHASE U-FRAME MOTORS



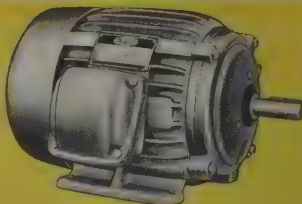
NEMA 102 to 213 FRAMES

1800 RPM
208-220/440V, 60 Hz
UL LISTED

Dayton

\$210.00

1 HP



NEMA 315 to 255U FRAMES

Explosion-proof, totally enclosed, fan-cooled 3-phase Dayton motors built for service on pumps, compressors, conveyors, machine tools, etc. that operate in hazardous atmospheres.

1 to 5 HP listed by Underwriters Laboratories for use in Class I, Group D & Class II, Groups E, F and G hazardous locations; 7½ and 10 HP listed for Class I, Group D & Class II, groups F and G. All models have built-in temperature-sensing switch with leads brought out, which, when

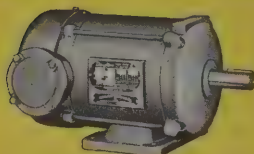
properly wired to the external control circuit, will limit maximum frame temperature as required by UL and the National Electrical Code.

Heavy-duty, rigid cast-type base. Double-shielded ball bearings. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. NEMA Design B starting torque and current. Large, explosion-proof conduit box. Rotation easily reversed. CSA approved. Gray finish. Dayton brand.

**PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS**

HP	RPM	Volts 60 Hz	NEMA Frame	Shaft Dia.	Base to Shaft	Full-Load Amps @220V	Stock No.	Retail	Each	Shpg. Wt.
1	1800	208-220/440	182	¾"	4 1/8"	3.8	3N180	\$255.00	\$210.00	62
1½	1800	208-220/440	184	¾"	4 1/8"	4.8	3N181	270.30	222.60	72
2	1800	208-220/440	184	¾"	4 1/8"	5.8	3N182	282.20	232.40	76
3	1800	208-220/440	213	1 1/8"	5 1/8"	8.4	3N183	342.00	281.20	92
5	1800	208-220/440	215	1 1/8"	5 1/8"	14.2	3N307	433.80	356.68	152
7½	1800	208-220/440	254U	1 5/8"	6 1/8"	21.0	3N308	572.40	470.64	299
10	1800	208-220/440	256U	1 5/8"	6 1/8"	27.0	3N309	682.20	560.92	348

EXPLOSION-PROOF 3-PHASE T-FRAME MOTORS



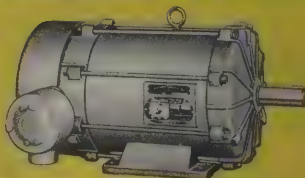
NEMA 182T Frame

1800 RPM
230/460V, 60 Hz
UL LISTED

Dayton

\$194.60

1 HP



NEMA 213T and 215T Frame

Explosion-proof, totally enclosed, fan-cooled 3-phase Dayton motors built for service on pumps, compressors, conveyors, machine tools, etc. that operate in hazardous atmospheres. Listed by Underwriters' Laboratories for use in Class I, Group D and Class II, Groups E, F and G hazardous locations.

All models have built-in temperature-sensing switch with leads brought out, which, when

properly wired to the external control circuit, will limit maximum frame temperature, as required by UL and the National Electrical Code. Double shielded ball bearings. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. NEMA design B starting torque and current. Large, explosion-proof conduit box. Rotation easily reversed. CSA approved. Gray finish. Dayton brand.

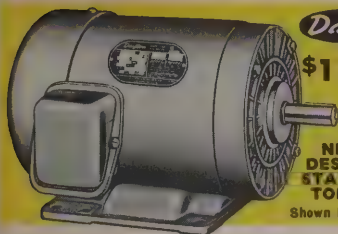
**PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS**

HP	RPM	Volts 60 Hz	NEMA Frame	Shaft Dia.	Base to Shaft	Full-Load Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
1	1800	230/460	143T	¾"	3 1/8"	3.6	3N332	\$236.30	\$194.60	45
1½	1800	230/460	145T	¾"	3 1/8"	4.8	3N333	248.20	204.40	44
2	1800	230/460	145T	¾"	3 1/8"	6.0	3N334	256.70	211.40	49
3	1800	230/460	182T	1 1/8"	4 1/8"	8.0	3N291	295.80	243.60	87
5	1800	230/460	184T	1 1/8"	4 1/8"	13.0	3N329	362.10	298.20	108
7½	1800	230/460	213T	1 3/8"	5 1/8"	20.2	3N330	495.00	407.00	156
10	1800	230/460	215T	1 3/8"	5 1/8"	26.0	3N331	579.60	476.56	170

For National Electrical Code (NEC) explosive atmosphere classifications, see facing page

TOTALLY ENCLOSED, U-FRAME 3-PHASE MOTORS

1 to 10 HP, 1800, 1200 & 3600 RPM, 208-220/440V, 60 Hz. Ball Bearings



Dayton

\$113.40

1 HP

**NEMA DESIGN B
STARTING
TORQUE**

Shown No. 2N935

Totally enclosed, externally fan-cooled Dayton 3-phase motors are designed to provide low-cost operation and dependable service in dusty, oily and corrosive atmospheres. For use on tools, pumps, blowers, conveyors, etc. NEMA Design B starting torque and current. Heavy-duty overload capacity. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty. Dynamically balanced rotors. Pre-lubricated ball bearings. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Large conduit box. Gray. Dayton brand.

**PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS**

1800 RPM, 208-220/440V, 60 Hz, 3-PHASE								COMPLETE WITH MAGNETIC STARTER		COMPLETE WITH MANUAL STARTER	
HP	NEMA Frame	Shaft Dia.	Full-Load Amps @220V	Stock No.	Retail	Each	Shog. Wt.	Stock No.	Each*	Stock No.	Each*
1	182	3/8"	3.8	2N933	\$144.00	\$113.40	39	7N229	\$163.76	7N303	\$147.64
1 1/2	184	7/8"	5.4	2N934	160.00	126.00	44	7N230	176.36	7N304	160.24
2	184	1"	5.8	2N935	176.00	138.60	52	7N231	188.96†	7N305	172.84
3	213	1 1/8"	8.8	2N936	205.80	161.70	62	7N232	221.10	7N306	195.94
5	215	1 1/2"	14.4	2N937	239.40	188.10	98	7N233	247.50†	7N307	222.34†
7 1/2	254U	1 3/8"	21.0	2N938	325.92	256.08	137	7N271	321.94	7N308	296.78
10	256U	1 3/4"	27.0	2N939	393.12	308.88	211	7N272	374.74†	7N640	349.58†
1200 RPM, 208-220/440V, 60 Hz, 3-PHASE											
1	184	3/8"	4.4	2N941	\$180.00	\$141.75	44	7N267	\$192.11	7N309	\$175.99
1 1/2	184	7/8"	5.2	2N942	192.00	151.20	46	7N268	201.56	7N310	185.44
2	213	1"	6.6	2N943	222.60	174.90	64	7N269	225.26†	7N311	209.14
3	215	1 1/8"	9.6	2N944	279.72	219.78	96	7N270	279.18	7N312	254.02
5	254U	1 1/2"	15.0	2N945	409.92	322.08	132	7N291	381.48†	7N313	356.32†
3600 RPM, 208-220/440V, 60 Hz, 3-PHASE											
1	56H	5/8"	3.4	3N317	\$96.75	\$63.34	23	7N530	\$113.70	7N531	\$97.58
1 1/2	182	3/8"	4.6	2N946	148.00	116.55	41	7N282	166.91	7N314	150.79
2	184	7/8"	5.5	2N947	172.00	135.45	44	7N283	185.81†	7N315	169.69
3	184	1"	8.0	2N948	202.40	159.39	54	7N284	218.79	7N316	193.63
5	213	1 1/8"	13.8	2N949	262.92	206.58	69	7N285	265.98†	7N317	240.82†

(*) Prices shown are for motors complete with 208, 220 or 440V thermal protected starters. Specify voltage. Starter station included with magnetic starters.

(†) Starter for 440V, only. (‡) Price is slightly higher where 208 or 220V is specified.

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

NATIONAL ELECTRICAL CODE EXPLOSIVE ATMOSPHERE CLASSIFICATIONS

Certain locations are hazardous because the atmosphere does or may contain gas, vapor or dust in explosive quantities. The National Electrical Code (NEC) divides these locations into Classes and Groups according to the type of explosive agent which may be present. Listed at right are some of the agents in each classification. For complete list, see Sec. 500 of the NEC.

Underwriters' Laboratories tests motors and other devices for safety in explosive atmospheres, and publishes a list of those meeting its standards for each Class and Group.

Use of UL listed devices does not necessarily make an installation conform to the NEC or local codes. Consult Chapter 5 of the NEC, local building codes, OSHA requirements and insurance company inspectors for detailed information as to proper procedures.

CLASS I

Group A: Acetylene

Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.

Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.

Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene

CLASS II

Group E: Aluminum, magnesium and other metal dusts with similar characteristics

Group F: Carbon black, coke or coal dust

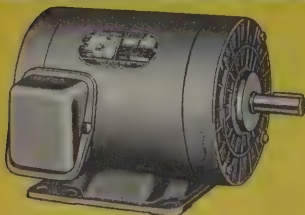
Group G: Flour, starch or grain dust

CLASS III

Easily ignitable fibers, such as rayon, cotton, sisal, hemp, cocoa fiber, oakum, excelsior and other materials of similar nature.

DRIPPROOF U-FRAME 3-PHASE DAYTON MOTORS

1 to 50 HP. 1800, 1200 & 3600 RPM. 208-220/440V, 50/60 Hz. Ball Bearings



No. 2N982

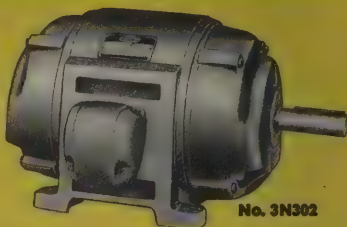
NEMA 182 to 284U FRAMES



\$97.65

1 HP
1800 RPM

**NEMA
DESIGN B
STARTING
TORQUE**



No. 3N302

NEMA 286U to 365US FRAMES

Precision-engineered Dayton 3-phase motors are built for utmost dependability and economy on heavy-duty and general-purpose industrial and farm applications—air compressors, pumps, machine tools, conveyors, blowers, etc. 1 to 50 HP, 1200, 1800 and 3600 RPM models, 208-220/440V, 60 Hz; also operable on 50 Hz, 220/440V at 5/6 of 60 Hz speed. Heavy-duty, cast,

rigid-type base. Double-shielded, pre-lubricated ball bearings. 40°C ambient, 1.15 service factor, Class A insulation (40°C rise), continuous duty. Open, dripproof. Dynamically balanced rotor. Large conduit box for easy connection. Built and tested to meet NEMA dimensional, performance and electrical standards. CSA approved. Gray finish. Dayton brand.

**PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER
SEE SALES POLICY IN INDEX FOR FULL DETAILS**

1800 RPM, 208-220/440V, 50/60 HZ, 3-PHASE								COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP	NEMA Frame (See p. 18)	Shaft Dia.	Full-Load Amps @ 220V	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Each*	Stock No.	Each*
1	182	3/8"	3.8	2N980	\$124.00	\$97.65	36	7N362	\$148.01	7N384	\$131.89
1 1/2	184	7/16"	5.4	2N981	136.00	107.10	40	7N363	157.46	7N385	141.34
2	184	7/16"	6.2	2N982	150.40	118.44	46	7N364	168.80†	7N386	152.68
3	213	1"	8.8	2N983	163.80	128.70	63	7N365	188.10	7N387	162.94
5	215	1 1/8"	14.4	2N984	184.80	145.20	93	7N366	204.60†	7N388	179.44†
7 1/2	254U	1 1/8"	20.0	2N985	268.80	211.20	118	7N367	277.06	7N389	251.90
10	256U	1 1/8"	26.2	2N986	325.92	256.08	142	7N368	321.94†	7N637	296.78†
15	284U	1 1/8"	42.0	2N987	435.12	341.88	211	7N369	427.12†	—	—
20	286U	1 1/8"	52.0	3N302	546.00	448.50	303	7N647	566.04†	—	—
25	324U	1 1/8"	64.0	3N303	646.80	531.30	423	7N648	648.84†	—	—
30	326U	1 1/8"	78.0	3N304	758.10	622.73	472	7N649	810.04	—	—
40	364U	2"	102.0	3N305	953.40	783.15	557	7N650	970.46†	—	—
50	365U	2"	125.0	3N306	1152.90	946.68	580	7N651	1133.99†	—	—
1200 RPM, 208-220/440V, 50/60 HZ, 3-PHASE											
1	184	3/8"	4.4	2N988	\$160.00	\$126.00	42	7N370	\$176.36	7N390	\$160.24
1 1/2	184	7/16"	5.2	2N989	176.00	138.60	45	7N371	188.96	7N391	172.84
2	213	1"	6.8	2N990	189.00	148.50	58	7N372	198.86†	7N392	182.74
3	215	1 1/8"	11.0	2N991	235.20	184.80	86	7N373	244.20	7N393	219.04
5	254U	1 1/8"	16.0	2N992	321.72	252.78	124	7N374	312.18†	7N394	287.02†
3600 RPM, 208-220/440V, 50/60 HZ, 3-PHASE											
1	56	5/16"	3.2	3N178	\$ 87.75	\$ 57.45	22	7N532	\$107.81	7N533	\$ 91.69
1 1/2	182	7/16"	4.8	2N995	136.00	107.10	40	7N377	157.46	7N396	141.34
2	184	7/16"	6.2	2N996	160.00	126.00	44	7N378	176.36†	7N397	160.24
3	184	7/16"	8.2	2N997	180.00	141.75	48	7N379	201.15	7N398	175.99
5	213	1"	13.6	2N998	229.32	180.18	66	7N380	239.58†	7N399	214.42†
7 1/2	215	1 1/8"	21.0	2N999	273.00	214.50	98	7N381	280.36	7N400	255.20
10	254U	1 1/8"	27.4	3N003	331.80	260.70	125	7N382	326.56†	7N639	297.52†

(*) Prices shown are for motors complete with 208, 220 or 440V, thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price slightly higher where 208 or 220V is specified.
(‡) Starter available for 440V only.

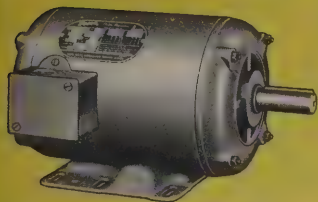
NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

DRIPPROOF 3-PHASE T-FRAME DOERR MOTORS

1 to 20 HP, 1800 RPM, 200-208 or 230/460V & 1 to 10 HP, 1200 RPM, 230/460V. All 60 Hz.

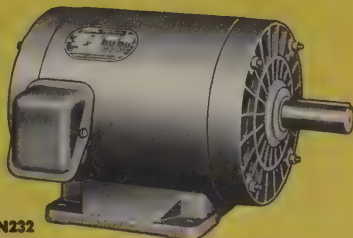


No. 3N244



\$78.12

1 HP
1800 RPM



No. 3N232

Quality 3-phase motors built by Doerr Electric Corp. NEMA design B for general-purpose applications—compressors, pumps, blowers, etc. 1 to 20 HP, 1800 RPM, 200-208 & 230/460V and 1 to 10 HP, 1200 RPM, 230/460V models. All 60 Hz. Rigid base. Double-shielded, prelubricated ball bearings. 40°C. ambient, 1.15 service factor, Class B

insulation (60°C rise), continuous duty. Open, dripproof construction. NEMA 143T to 256T frames. Steel base on 143T to 215T frames, cast iron base on 254T and 256T frames. Rotation easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray. Doerr brand.

1 TO 20 HP, 1800 RPM, 200-208 & 230/460V, 60 Hz										COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP	Volts 60 Hz	NEMA Frame (See p. 16)	Shaft Dia.	Low Volt Amps	Stock No.	Retail	Each	Shpg. Wt.		Stock No.	Each*	Stock No.	Each*
1	200-208 230/460	143T 143T	1/8" 1/8"	4.2 3.6	3N244 3N225	\$99.20 99.20	\$78.12 78.12	27 30		7N580 7N548	\$128.48 128.48	7N585 7N557	\$112.36 112.36
1½	200-208 230/460	145T 145T	3/8" 3/8"	5.5 4.8	3N245 3N226	108.80 108.80	85.68 85.68	31 32		7N581 7N549	136.04 136.04	7N586 7N558	119.92 119.92
2	200-208 230/460	145T 145T	1/2" 1/2"	6.9 6.0	3N246 3N227	120.00 120.00	94.50 94.50	34 34		7N582 7N550	153.90 144.86†	7N587 7N559	128.74 128.74
3	200-208 230/460	182T 182T	1 1/8" 1 1/8"	11.3 9.8	3N247 3N228	124.80 124.80	98.28 98.28	50 48		7N583 7N551	157.68 157.68	7N588 7N560	132.52 132.52†
5	200-208 230/460	184T 184T	1 1/2" 1 1/2"	16.6 14.4	3N248 3N229	140.80 140.80	110.88 110.88	61 95		7N584 7N552	176.74 170.28†	7N589 7N561	151.58 145.12†
7½	230/460	213T	1 3/4"	24.0	3N230	215.04	168.96	94		7N553	234.82	7N562	209.66
10	230/460	216T	1 3/4"	27.0	3N231	260.40	204.60	108		7N554	270.46	7N634	245.30
15	230/460	254T	1 3/4"	40.0	3N232	347.76	273.24	186		7N555	358.48†	—	—
20	230/460	256T	1 3/4"	58.0	3N233	436.80	343.20	215		7N556	460.74†	—	—

1 TO 10 HP, 1200 RPM, 230/460V, 60 Hz													
1	230/460	145T	3/8"	4.0	3N267	\$128.00	\$100.80	31		7N605	\$151.16	7N612	\$135.04
1½	230/460	182T	1 1/8"	5.8	3N268	140.80	110.88	44		7N606	161.24	7N613	145.12
2	230/460	184T	1 1/8"	7.2	3N269	144.00	113.40	52		7N607	163.76†	7N614	147.64
3	230/460	213T	1 1/2"	10.6	3N270	188.16	147.84	86		7N608	207.24	7N615	182.08
5	230/460	216T	1 3/4"	15.4	3N271	257.04	201.96	106		7N609	261.36†	7N616	236.20†
7½	230/460	254T	1 3/4"	22.0	3N272	336.00	264.00	173		7N610	329.86	7N617	304.70
10	230/460	256T	1 3/4"	27.4	3N273	409.92	322.08	205		7N611	387.94†	7N618	362.78†

(*) Prices shown are for motors with thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 230V is specified. (‡) Starter for 460V only.

STEWART-WARNER 4000 RPM PORTABLE TACHOMETER

Easy-Reading Scale. Accurate Within 2%. CW or CCW

\$13.77

Lots 6

Measures 50 to 4000 RPM shaft speed on any open-ended shaft instantly. Use on motors, saws, compressors, fans, pumps, grinders, etc. Reads directly in RPM. Accurate within plus or minus 2%. 2½" dia. scale divided in 50 and 100 RPM steps, large numerals every 500 RPM.

Has magnetic damper for steady pointer indication. With cup-shaped tip for flat-end shafts, cone-shaped tip for shafts with center holes. Magnetic mechanism is enclosed in dust and waterproof steel case. 2¾" dia. 4" long overall. Stewart-Warner brand (757W). Shpg. wt. 14 oz.

No. 2X132. Retail \$25.50. Each \$15.81; lots 6.....\$13.77



**90-DAY
LIMITED
WARRANTY**

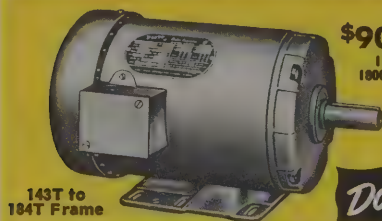
See Limited
Warranty Policy
in Index

NEMA SHAFT AND MOUNTING DIMENSIONS, Pg. 16—MOTOR TERMINOLOGY, Pg. 17

SEE WARRANTY INFORMATION ON PAGE 684

TOTALLY ENCLOSED 3-PHASE T-FRAME DOERR MOTORS

1 to 15 HP, 1800 RPM and 1 to 5 HP, 1200 RPM. 230/460V, 60 Hz. Double-Shielded Ball Bearings

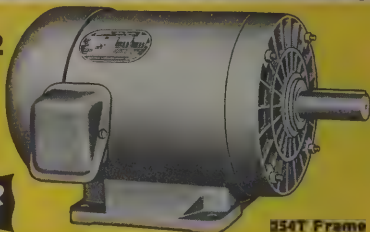


143T to
184T Frame

\$90.72

1 HP
1800 RPM

DOERR



354T Frame

Doerr 3-phase totally-enclosed fan-cooled motors for operation in dusty, oily, and mildly corrosive atmospheres. NEMA design B for general purpose applications—pumps, blowers, compressors, conveyors, etc. 1 to 15 HP, 1800 RPM, 1 to 5 HP, 1200 RPM. 230/460V, 60 Hz. Rigid base. Double-

shielded, prelubricated ball bearings. 40°C ambient, 1.0 service factor, Class B insulation, (75°C rise), continuous duty. Rotation easily reversed. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Doerr brand.

HP	Volts 60 Hz	NEMA Frame (See p. 16)	Shaft Dia.	Full- Load Amps @230V	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
									Stock No.	Each*	Stock No.	Each*
1 to 15 HP, 1800 RPM, 230/460V, 60 Hz												
1	230/460	143T	7/8"	3.6	3N260	\$115.20	\$90.72	28	7N590	\$141.08	7N595	\$124.96
1½	230/460	145T	1"	4.8	3N261	128.00	100.80	32	7N591	151.16	7N596	135.04
2	230/460	145T	1 1/8"	6.0	3N262	140.80	110.88	36	7N592	161.16†	7N597	145.04
3	230/460	182T	1 1/8"	8.4	3N263	156.80	123.48	57	7N593	182.88	7N598	157.72
5	230/460	184T	1 3/8"	13.0	3N264	182.40	143.64	74	7N594	203.04†	7N599	177.88†
7½	230/460	213T	1 3/8"	21.0	3N274	260.40	204.60	118	7N619	270.46	7N622	245.30
10	230/460	215T	1 3/8"	25.6	3N275	314.16	246.84	127	7N620	312.70†	7N623	287.54†
15	230/460	254T	1 3/8"	41.0	3N276	420.00	330.00	225	7N621	415.24†	—	—

1 to 5 HP, 1200 RPM, 230/460V, 60 Hz

1	230/460	145T	7/8	4.0	3N277	\$144.00	\$113.40	34	7N624	\$163.76	7N629	\$147.64
1 1/2	230/460	182T	1 1/8	5.8	3N278	153.60	120.96	44	7N625	171.32	7N630	155.20
2	230/460	184T	1 1/8	7.2	3N279	169.60	133.56	53	7N626	183.92 †	7N631	167.80
3	230/460	213T	1 1/8	10.0	3N280	223.44	175.56	86	7N627	235.96	7N632	210.80
5	230/460	215T	1 3/8	15.4	3N281	327.60	257.40	114	7N628	316.80 †	7N633	291.64

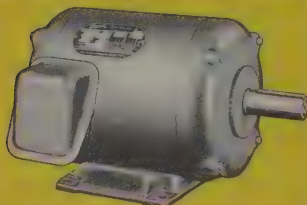
(*) Prices shown are for motors with thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 230V is specified. (‡) Starter for 460V only.

NEMA DESIGN D HIGH-SLIP 3-PHASE DOERR MOTORS

High Slip (8 to 13%), High Starting Torque
5 and 7½ HP, 1800 RPM, 230/460V, 60 Hz, Dripproof

\$239.80

5 HP



Doerr high slip motors, with high starting torque (275% minimum), normal starting current and high rotor resistance are designed for hard-starting applications such as pressure pumps, loaded compressors, etc., and high impact loads such as hoists, cranes, punch presses, elevators, oilwell pumps, shears, bending brakes, etc. The high, 8 to 13%, running slip and varying speed characteristic qualifies these motors for such applications. 3-phase, 1800 RPM at no load (1640 RPM at full load), 230/460V, 60 Hz. Rigid, cast-aluminum base. Pre-lubricated, double-shielded ball bearings. 40°C ambient, 1.0 service factor, Class B insulation, continuous duty. Rotation reversed by electrical reconnection. Gray finish. Doerr brand.

5 & 7½ HP, HIGH SLIP MOTORS, 1800 RPM								COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
HP (See p. 18)	NEMA Frame Dia.	Base Shaft to Dia.	Full- Load Amps**	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Each*	Stock No.	Each*
5	213T	1 1/8"	14.4	3N242	\$335.72	\$239.80	106	7N568	\$287.23†	7N571	\$267.11†
7½	215T	1 3/8"	22.0	3N243	463.54	331.10	125	7N569	383.68†	7N572	363.56†

(*) Prices shown are for motors with 230 or 460V thermal protected starters. Specify voltage. Start-stop station included with magnetic-starters. (†) Price is slightly higher where 230V is specified. (**) At 230V.

(‡) While stocks last.

NEMA SHAFT AND MOUNTING DIMENSIONS FOR ALL MOTORS ABOVE LISTED ON PAGE 16

PERMANENT-SPLIT CAPACITOR GEARMOTORS

4 to 100 RPM, 115V, 60 Hz. Reversible Rotation Units

Widely used in valve operators, business machines, automatic merchandising equipment, etc. Powered by permanent split capacitor, 3-wire, reversible motor, 1/100 HP, 115V, 60 Hz. 2 pole, 4 coil construction. Input motors have self-aligning, porous bronze sleeve-type bear-

ings with oil reservoirs, for all angle operation. Shrouded cooling fan permits continuous duty operation. Recognized by Underwriters' Laboratories under the Motor Component Recognition Program. Capacitor not included—4 MFD oil capacitor listed below table.

Fig. A. GEARMOTOR

Gear train totally enclosed in a pre-lubricated, zinc die-cast case with stamped steel cover. First step gear is fibre for low noise level, all others are precision cut steel. Six mounting holes tapped for #8-32 screw, $\frac{3}{4}$ " deep.

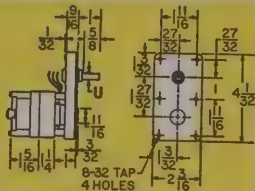
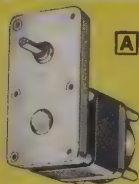


Fig. B. 10 RPM GEARMOTOR

Has pre-lubricated zinc die-cast case with oversize flange bearings for severe radial loading. First step gear is fibre, all others are hardened alloy steel wide-face ($\frac{1}{8}$ ") gears. Four mounting holes #10-32 x $\frac{3}{16}$ " deep.

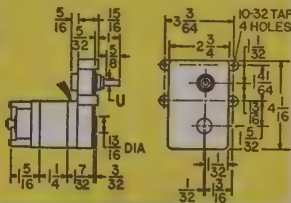
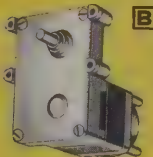


Fig.	Full-Load RPM	Torque, in/Lbs		Motor HP	Full-Load Amps	Shaft Dia. (U)	Stock No.	Retail	Each	Shpg. Wt.
		Start	Run							
A	4	45	30	1/100	0.38	0.312"	2Z813	\$21.86	\$14.57	2 1/2
B	10	36	26	1/100	.38	.312	3M154	26.58	17.72	3
A	20	18	13	1/100	.38	.250	3M153	19.91	13.27	2 3/4
A	32	10	7.5	1/100	.38	.250	2Z814	19.89	13.26	2 3/4
A	60	7.5	4	1/100	.38	.250	2Z829	19.89	13.26	2 3/4
A	100	3.5	2	1/100	.38	.250	2Z830	20.43	13.62	2 3/4

4 MFD OIL CAPACITOR FOR ABOVE. Shpg. wt. 7 oz. No. 4X426. Retail \$5.45. Each.....\$2.17

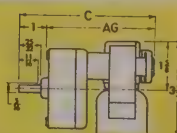
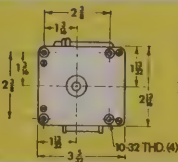
1 to 200 RPM *Dayton* SHADED POLE GEARMOTORS

**1.18 to 50 In/Lbs Full-Load Torque. Continuous Duty. Impedance Protected
1/400 to 1/120 HP Input Motors. 115V, 60 Hz. Die-Cast Zinc Gear Housing**



\$11.91

RPM
OEM Prices
On Request
Ask Your
Grainger
Salesman



Compact Dayton gearmotors built for long, dependable service on continuous-duty applications such as business machines, vending equipment, timing devices, displays, etc.

Input motors are impedance protected, range from 1/400 to 1/120 HP. All are 115V, 60 Hz.

Gear trains are totally enclosed in die-cast zinc housing. First stage helical gear is acetal

for low noise level. Others are either acetal or precision-cut steel; combination of materials selected for quiet operation and long life. Gearcases factory-lubricated. Output shaft rotation clockwise, as viewed facing shaft. Units have porous bronze bearings with large felt oil reservoirs, are suitable for all-angle operation.

Recognized by Underwriters' Laboratories under the Motor Component Recognition Program.

Full-Load RPM	Torque, In/Lbs Start	Motor HP	Full-Load Amps	Rotation	Var. C	Dimensions AG	Stock No.	Retail	Each	Shpg. Wt.	
1	50.0	50.0	1/400	0.27	CW	4.41"	3.41"	22804	\$18.60	\$12.40	2 1/4
2	25.0	25.0	1/400	.27	CW	4.41	3.41	22805	18.60	12.40	2 1/4
6	21.5	22.5	1/330	.41	CW	4.41	3.41	22806	17.87	11.91	2 1/4
12	25.0	25.7	1/135	.44	CW	4.91	3.01	22807	18.54	12.36	3 1/4
20	10.5	15.2	1/120	.48	CW	4.82	3.82	22808	19.14	12.76	3 1/4
30	6.5	11.6	1/120	.48	CW	4.82	3.82	22809	19.14	12.76	3 1/4
60	3.25	4.7	1/120	.48	CW	4.82	3.82	22810	19.14	12.76	3 1/4
120	1.50	2.7	1/120	.48	CW	4.82	3.82	22811	18.00	12.00	3 1/4
200	0.75	1.18	1/120	.48	CW	4.82	3.82	22812	18.00	12.00	3 1/4

SEE WARRANTY INFORMATION ON PAGE 684

1 to 50 RPM



SHADED POLE GEARMOTORS

For Vending Machines, Appliances, Valve Operators, Computers, Duplicating Machines, Etc.

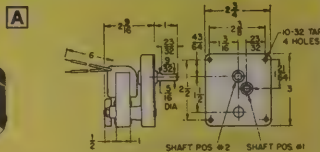
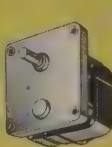
A complete line of compact, dependable, general-purpose shaded pole gearmotors. Input motors range from 1/250 HP to 1/40 HP at 115V, 60 Hz. Continuous duty. All models have self-aligning, porous bronze bearings with large felt oil reservoirs for increased life. 1 to 50 RPM output speeds, running torques from 4 in/lbs to

120 in/lbs, full load. Impedance type thermal protection as listed in table. Rotation CW facing shaft, non-reversible. Widely used in vending machines, appliances, valve operators, computers, duplicating machines, timing devices, etc. Recognized by UL under the Motor Component Recognition Program.

Fig. A Gear train on this model is totally enclosed in a pre-lubricated zinc die-cast case and has a stamped steel cover.

First step gear is molded Delrin for low noise level; all others are precision cut steel. No. 3M095 has 3 Delrin and 3 steel gears. No. 3M097 has all Delrin gears because of high speed and low torque. Four 1032 tapped mtg. holes in cast gear housing. All angle operation. $\frac{7}{16}$ " stack on No. 3M095.

Optional motor covers available for use on intermittent-duty applications. See Index under Motor Accessories, Covers.



Shaft Position: #1 on No. 3M095 & 3M096,
Position #2 on No. 3M097, 3M099, 3M100 & 3M101

Fig. B Small gearbox configuration for confined areas. Gear train completely enclosed in pre-lubricated all zinc die-cast housing. First step gear is molded Delrin; all others are sintered steel. Five 8-32 tapped mounting holes; all holes, or a combination of holes can be used. Interchangeable with many similar motors. All angle operation.

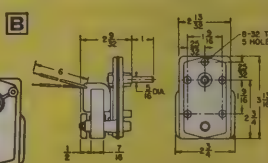
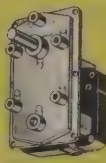


Fig. C Motor incorporates a rigid die-cast bearing bracket. First step gear is fiber for low noise level; all others are hardened alloy steel with greater face width for long life under heavy loading conditions. Rugged zinc die-cast gear case with oversize flange bearings for severe radial loading. Cooling fan for continuous-duty applications. All angle operation.

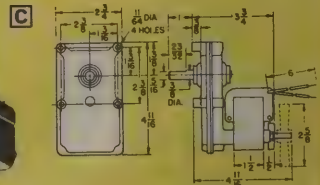


Fig. D Heavy-duty gearmotor which has a die-cast bearing bracket for rigidity and accurate rotor alignment. First step gear is fiber for lower noise level; all others are hardened steel-alloy with wide faces for higher torque capacity. Zinc die-cast gear case has oversize flange bearings for heavy radial loading. Two gear shaft design for maximum life under high torque, heavy stress and shock loads. Cooling fan for continuous-duty applications. All angle operation.

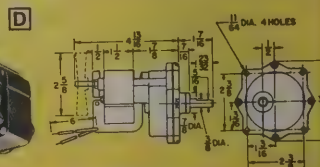


Fig.	Full-Load RPM	Volts 60 Hz	Torque Start	In/Lbs Run	Motor HP	Thermal Protection	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
A	1	115	50.00	50.00	1/250	Impedance	0.32	3M095	\$13.56	\$9.04	1
B	4	115	18.00	18.00	1/250	Impedance	0.32	3M098	12.27	8.18	1 1/4
C	6	115	100.00	120.00	1/40	—	1.65	3M104	25.46	16.97	4
A	7	115	27.00	35.00	1/100	Impedance	0.55	3M096	13.47	8.98	2
D	10	115	50.00	65.00	1/40	—	1.65	3M103	28.91	19.27	4
A	18	115	9.50	13.00	1/100	Impedance	0.55	3M099	13.22	8.81	2 1/4
A	25	115	6.75	9.25	1/100	Impedance	0.55	3M100	13.28	8.85	2 1/4
A	35	115	5.00	7.00	1/100	Impedance	0.55	3M101	13.32	8.88	2
A	50	115	3.00	4.00	1/100	Impedance	0.55	3M097	12.02	8.01	2 1/4

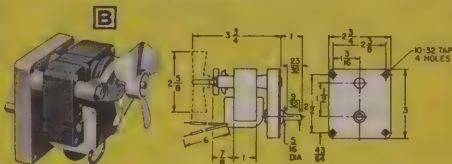
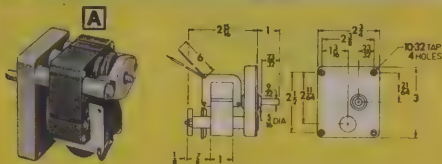
MODIFIED MOTORS AVAILABLE FOR OEM PRODUCTION USE

Modified versions of stock Dayton and Westinghouse motors are available to quantity users on special order, with deliveries scheduled to meet production needs. Your Grainger salesman can advise availability and quote prices on your special motor needs.

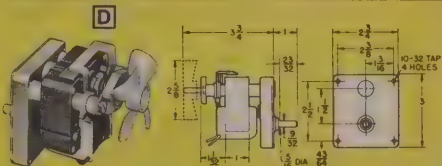
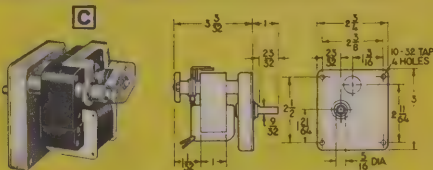
**5.5 to 30 In./Lbs. Full-Load Torque. Continuous Duty
Cone and Magnetic Types. 115V, 60 Hz. Shaded Pole Input**

pole type, 115V, 60 Hz, continuous duty, sleeve bearing. Pre-lubricated gear train, enclosed in die cast zinc housing with steel cover. CW rotation, as seen facing shaft; non-reversible. Recognized by UL under the Motor Component Recognition Program.

Cone type friction brake provides positive stopping and holding action. Output shaft over-travel approx. 10° when motor is de-energized. 7 and 25 RPM units have all sintered steel gears, 50 RPM both fibre and sintered steel gears. 25 and 50 RPM units have extended rotor shaft to mount cooling fan, which is provided. 7 RPM unit is impedance protected. Units are operable in all positions except vertical with shaft down.



Magnetic type brake provides positive stopping and holding action. Output shaft over-travel approx. 5° when motor is de-energized. 7 and 25 RPM units have cut steel gears and sintered steel gears; 50 RPM unit has both helical fibre and steel gears. 25 and 50 RPM units have extended rotor shaft to mount cooling fan, which is provided. 7 RPM unit is impedance protected. Units are operable in all positions.



(*) Has impedance protection.

99c

99c Protects motors on all Fig. A, 1 to 50 RPM shaded pole gearmotors (No. 3M095, 3M096, 3M097, 3M099, 3M100 & 3M101 listed on preceding page). While Stocks against dust, grease and other foreign matter. Made of industrial black plastic that withstands a temperature of 300°F maximum. Cover also adds to general appearance and is easily attached with screws furnished. Shpg. wt. 4 oz. Motor covers are optional for motors on intermittent duty applications, only.

Motor warranty void if cover is used on continuous-duty application.

No. 6X282. Was \$1.48 Each, While Stocks Last **99c**

Quantity Prices on Motors for OEM Production Use — Fast Delivery

Quantity prices are available on most motors listed in this MotorBook. Most standard needs can be shipped from local stocks as required. Ask your Grainger salesman.

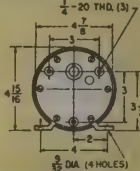
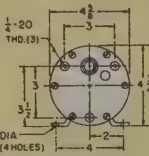
87

**2, 6, 12, 30, and 60 RPM Output, Continuous Duty. Ball Bearing Shaded Pole Motors
42 to 113 In/Lbs Full-Load Torque**



sion-cut gears. Low-noise phenolic 1st and 2nd stage gears on 2 to 12 RPM models; 1st stage only on 30 RPM and up. Other gears are steel. Oil impregnated sleeve bearing on output shaft. Grease-lubricated gearbox. For all-angle operation except vertical, shaft down. CW rotation facing output shaft. Two 14", #18 AWG leads. Gray finish. Dayton brand. Shpg. wt. 11 lbs.

DIMENSIONS TOTALLY ENCLOSED MOTORS



OPEN FAN-COOLED GEARMOTORS

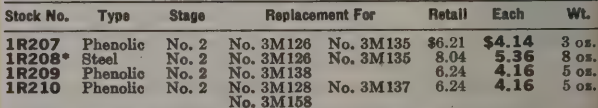
6	113	1/10	3.6	3M135	\$63.60	\$42.40
12	113	1/10	3.6	3M136	63.60	42.40
30	113	1/10	3.6	3M137	61.25	40.83
60	50	1/10	3.6	3M138	61.25	40.83

back of input motor and adds only one inch to overall length of open type motor. See dimension print above.

30	113	1/10	3.6	3M158	\$72.60	\$48.40
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2	113	1/20	1.3	3M125	\$67.60	\$45.07
6	113	1/20	1.3	3M126	63.95	42.63
12	113	1/20	1.3	3M127	63.95	42.63
30	42	1/20	1.3	3M128	60.35	40.23

In-stock replacements for stage 2 gear in above gearmotors. Phenolic construction, except No. 1R208 which is steel—all are precision cut. Gears not listed available from our Customer Service Dept. in Chicago; order from nearest Grainger address for fastest service.



(*) No. 1R208 is an optional steel gear for use where noise is not a factor.

Dauphin

\$49.93[illegible]

All-Position Mounting.

Type	RPM	Open, Fan Cooled		TEFC	
		F	D	C	D
Shaded Pole	4 & 6	9 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "	9 $\frac{1}{4}$ "	3 $\frac{3}{4}$ "
	13.5	9 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "	9 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "
	30 & 67.5	9 $\frac{1}{8}$ "	3 $\frac{3}{4}$ "	9 $\frac{1}{8}$ "	3 $\frac{3}{4}$ "
Split Phase	All	10 $\frac{13}{16}$ "	3 $\frac{3}{4}$ "	10 $\frac{13}{16}$ "	3 $\frac{3}{4}$ "

Fig.	Full-Load RPM	Full-Load Torque In/Lbs	Input Motor HP	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
A	4.0	200	1/40	1.3	3M321	\$79.47	\$52.98	9
A	6.0	200	1/40	1.3	3M322	79.47	52.98	9
A	13.5	200	1/20	1.7	3M323	80.55	53.70	10
A	30.0	125	1/15	2.2	3M324	74.90	49.93	10
A	67.5	55	1/15	2.2	3M325	74.90	49.93	10

B	4.0	200	1/40	1.4	3M326	\$82.20	\$54.80	9
B	6.0	200	1/40	1.4	3M327	82.20	54.80	9
B	13.5	200	1/20	1.6	3M328	83.25	55.50	10
B	30.0	125	1/15	2.2	3M329	77.36	51.57	10
B	67.5	55	1/15	2.2	3M330	77.36	51.57	10

A	13.5	200	1/15	1.7	27815	\$95.30	\$63.53	11
A	30.0	125	1/15	1.7	6K301	87.23	58.17	11
A	67.5	55	1/15	1.7	22816	87.12	58.08	10
A	100	38	1/15	1.7	22840	87.26	58.17	11

B	13.5	200	1/15	1.7	22817	\$96.71	\$64.47	11
B	30.0	125	1/15	1.7	6K303	88.65	59.10	11
B	67.5	55	1/15	1.7	22818	88.65	59.10	11
B	100	38	1/15	1.7	22841	88.65	59.10	11

3/4 Ft/Lb, 115V, 60 Hz. Mounts Directly on Shaft Extension Provided on Gearmotor

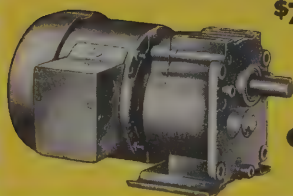
Dayton

No. 3M342. Dayton Brake. Retail \$39.62. Each.....\$26.41

89

13.5 TO 135 RPM IN-LINE DAYTON GEARMOTORS

65 to 350 In/Lbs Full-Load Torque. Split-phase Input Motor. 115V, 60 Hz
Open, Fan-Cooled or Totally Enclosed, Fan-Cooled Construction



\$77.40

No. 6K323

Dayton

Heavy-duty split-phase in-line Dayton gearmotors designed for long, trouble-free life on applications such as conveyors, printing, food processing, packaging and vending equipment, and other jobs that require day-in, day-out dependability. 13.5 to 135 RPM, 65 to 350 in/lbs full-load torque. 115V, 60 Hz, continuous duty input motors with open, fan-cooled or totally enclosed, fan-cooled construction. 40°C ambient 1.0 service factor. Class A insulation. Prelubricated, sealed ball bearings in input motors. Rotation easily reversed by electrical reconnection. Gray finish. Capped shaft extension provided for mounting optional No. 3M342 brake listed below.

GEARCASE

CONSTRUCTION FEATURES

Pinions and Gears: All hardened steel.

Bearings: Heavy duty needle roller.

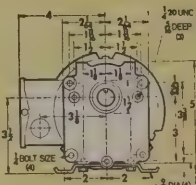
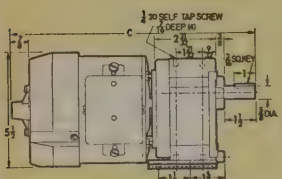
Lubrication: Permanent, with heavy fluid gear oil.

Lip Type Rubber Seals: Input and output shafts.

Gear Case: Die cast aluminum.

Base: Rigid steel; removable. Allows high or low output shaft position.

All-Position Mounting.



OPEN, FAN-COOLED SPLIT-PHASE GEARMOTORS

Full-Load RPM	Full-Load Torque In/Lbs	Input Motor HP	Length Overall (C)	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
13.5	350	1/12	11 1/4"	3.0	6K314	\$119.97	\$79.98	13
27.0	275	1/6	12	4.4	6K316	127.23	84.82	17
40.0	225	1/6	12	4.4	6K319	127.10	84.73	16
60.0	150	1/6	12	4.4	6K320	116.22	77.48	16
90.0	100	1/6	12	4.4	6K322	119.60	79.73	15
135.0	65	1/6	12	4.4	6K323	116.10	77.40	15

TOTALLY ENCLOSED, FAN-COOLED SPLIT-PHASE GEARMOTORS

Full-Load RPM	Full-Load Torque In/Lbs	Input Motor HP	Length Overall (C)	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
13.5	350	1/12	11 1/4"	2.4	6K325	\$123.53	\$82.35	14
27.0	275	1/6	12	3.9	6K328	130.58	87.05	16
40.0	225	1/6	12	3.9	6K329	130.58	87.05	16
60.0	150	1/6	12	3.9	6K331	119.85	79.90	17
90.0	100	1/6	12	3.9	6K332	119.85	79.90	17
135.0	65	1/6	12	3.9	6K334	119.73	79.82	16

MAGNETIC DISC BRAKE FOR ABOVE GEARMOTORS

3/4 Ft/Lb, 115V, 60 Hz. Mounts Directly on Shaft Extension Provided on Gearmotors Above

Dayton



\$26.41

Dayton magnetic disc 3/4 ft/lb brake designed for operation on split phase gearmotors listed above. Used on applications that require rapid stopping and holding action—conveyors, hoists, door openers, etc.

Brake mounts directly on shaft extension provided on the above gearmotors with the use of a brake hub and mounting bolts (included).

Brake engages and holds load under power-off condition and automatically releases when power is applied. 12" long leads for easy connection to motor. Overall length 2 7/8", diameter 4 1/8". Gray finish. Dayton brand. Shpg. wt. 4 lbs.

No. 3M342. Dayton 3/4 Ft/Lb Magnetic Disc Brake. Retail \$39.62 Each. **\$26.41**

GEARMOTORS—BIG IN-STOCK LINE AVAILABLE FROM GRAINGER'S

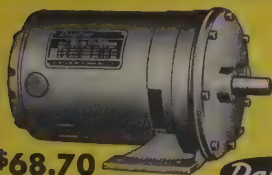
Call Grainger first for your gearmotor needs—get just what you need from our large diversified stock. Dayton line includes over 90 in-line and right-angle gearmotors with outputs of 1 to 288



RPM, and 1/400 to 3-HP input—shaded pole, AC-DC, permanent magnet DC, split phase, capacitor and 3-phase. For door openers, conveyors, mixers, other uses. See Index under Gearmotors.

1/4 & 1/2 HP SPLIT PHASE GEARMOTORS

6, 12, 18, 30, 60, 90 or 120 RPM. 115V, 60 Hz. 100 to 800 In/Lbs Full-Load Torque. UL Recognized



\$68.70

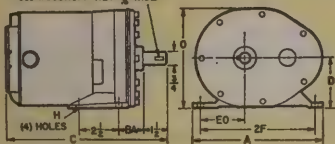
Nos. 5K939, 5K940, 5K942

Dayton

Dayton split phase gearmotors are built for dependable, economical service on conveyors, pin setters, ice vending machines, machine tools, chemical feeders, packaging machines, and similar low-speed applications. Die-cast zinc gear case has precision cut, quiet running hardened steel and phenolic gears, with sleeve bearings on the 1/4 HP unit and ball bearings on the 1/2 HP unit. Motors rated 1/4 and 1/2 HP, 1725 RPM, 115V, 60 Hz, split phase, 40°C ambient, continuous (8-hour day) duty, open dripproof construction; directly mounted on gearcase. 4.6 full-load amps on 1/4 HP models; 7.5 on 1/2 HP. Rotation easily reversed by electrical reconnection. Suitable for all-position mounting. 1½" L x ¾" diameter shaft with Woodruff key.

		1/4 HP INPUT MOTOR					1/2 HP INPUT MOTOR				
Full-Load RPM	Ratio	Torque In/Lbs	Stock No.	Dim. Ref.	Retail	Each	Torque In/Lbs	Stock No.	Dim. Ref.	Retail	Each
6	288:1	600	5K933	X	\$128.40	\$85.60	—	—	—	—	—
12	144:1	800	5K934	X	128.40	85.60	—	—	—	—	—
18	96:1	550	5K935	X	128.40	85.60	—	—	—	—	—
30	58:1	400	5K939	Y	103.05	68.70	800	22794	Z	\$161.82	\$107.88
60	29:1	200	5K940	Y	103.05	68.70	400	22795	Z	161.88	107.88
90	19.2:1	—	—	—	—	—	287	22796	Z	161.88	107.88
120	14.4:1	100	5K942	Y	103.05	68.70	—	—	—	—	—

¾" WOODRUFF KEY 3/8" WIDE

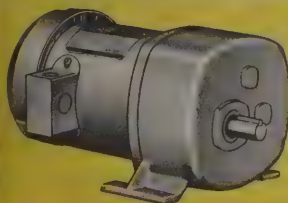


Dim. Ref.	A	BA	C	D	EO
X	8 5/8"	1 1/4"	12 1/4"	3"	2 3/4"
Y	8"	1 1/4"	11 1/4"	3"	2 3/4"
Z	8 1/4"	1 3/4"	12 1/2"	3 3/4"	3"

Dim. Ref.	2F	H	O	Shpg. Wt
X	7 1/8"	1 1/4" Dia.	6 3/4"	26
Y	7 3/8"	1 1/4" Dia.	6"	23
Z	7"	1 1/4" Dia.	7 1/2"	34

1/4 to 1/2 TEFC SPLIT PHASE DAYTON GEARMOTORS

12 to 288 RPM. 115V, 60 Hz. 70 to 700 In/Lbs Full-Load Torque



\$93.20

Nos. 6K353 and 6K354

Dayton

Heavy-duty totally enclosed, fan-cooled gearmotors, designed for ambients containing dust, dirt, or airborne abrasives, applications which call for high torque at low speeds; chemical feeders, conveyors, packaging machines, etc. 115V, 60 Hz, continuous duty. 40°C ambient, 1.0 service factor. Pre-lubricated ball-bearings on input motor. Rotation easily reversed by electrical reconnection. 1½" L x ¾" diameter shaft with 1½" long, 3/8" square key.

GEARCASE CONSTRUCTION FEATURES

Pinions: Hardened steel

Gears: All steel, all hardened. Helical high speed stage for smooth quiet operation, and spur at subsequent stages for maximum load carrying capability.

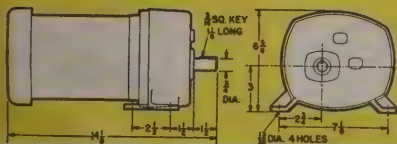
Bearings: Heavy duty needle roller, except output shaft has #304 ball bearing.

Lubrication: Permanent, heavy fluid gear oil.

Gearcase: Die cast aluminum.

Lip type seals: On input and output shafts.

All position mounting.



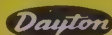
HP	Full-Load RPM	Ratio	Torque In/Lbs	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/4	12	144.5:1	600	3.7	6K351	\$151.17	\$100.78	27
	27	64.2:1	500	3.7	6K352	151.17	100.78	27
	60	28.9:1	240	3.7	6K353	139.80	93.20	26
	135	12.9:1	100	3.7	6K354	139.80	93.20	26
1/3	27	64.3:1	700	5.3	6K396	169.20	112.80	28
	40	42.8:1	450	5.3	22842	154.43	102.95	27
	60	28.6:1	320	5.3	6K369	154.55	103.03	27
	90	19.0:1	220	5.3	22843	154.32	102.88	26
	157	11.0:1	125	5.3	22844	154.32	102.88	26
	288	6.1:1	70	5.3	22845	154.32	102.88	26
1/2	40	42.8:1	700	7.4	6K375	175.36	116.91	29
	60	28.6:1	480	7.4	6K583	175.25	116.83	28
	90	19.0:1	320	7.4	6K383	175.25	116.83	28
	135	12.9:1	215	7.4	6K506	175.25	116.83	28

SEE WARRANTY INFORMATION ON PAGE 684

No. 2Z850

3-Phase, Open, Dripproof Input Motors

Mounting Positions: All except vertical, shaft up or down.



Stock No.	A	C	E	H	N*	S	U	Z
2Z847	71 $\frac{1}{2}$	142 $\frac{1}{2}$	31 $\frac{1}{2}$	18 $\frac{1}{2}$	21 $\frac{1}{2}$	43 $\frac{1}{2}$	1	48 $\frac{1}{2}$
2Z848	61 $\frac{1}{2}$	141 $\frac{1}{2}$	28 $\frac{1}{2}$	2 $\frac{1}{2}$	15 $\frac{1}{2}$	31 $\frac{1}{2}$	8 $\frac{1}{2}$	41 $\frac{1}{2}$
2Z849	61 $\frac{1}{2}$	141 $\frac{1}{2}$	28 $\frac{1}{2}$	2 $\frac{1}{2}$	15 $\frac{1}{2}$	31 $\frac{1}{2}$	8 $\frac{1}{2}$	41 $\frac{1}{2}$
2Z851	61 $\frac{1}{2}$	141 $\frac{1}{2}$	28 $\frac{1}{2}$	2 $\frac{1}{2}$	15 $\frac{1}{2}$	31 $\frac{1}{2}$	8 $\frac{1}{2}$	51 $\frac{1}{2}$
2Z850	61 $\frac{1}{2}$	141 $\frac{1}{2}$	28 $\frac{1}{2}$	2 $\frac{1}{2}$	15 $\frac{1}{2}$	31 $\frac{1}{2}$	8 $\frac{1}{2}$	41 $\frac{1}{2}$

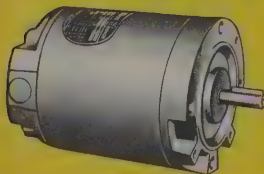
(*) Keyway dimensions $\frac{3}{16} \times \frac{3}{32} \times 1\frac{1}{8}$ " long, except No. 2Z847 has $\frac{1}{4} \times \frac{1}{8} \times 1\frac{3}{8}$ " keyway.

(†) Elongated holes, $1\frac{1}{2}$ "W x $\frac{5}{8}$ "L.

RPM	Full-Load Torque, In/Lbs	Maximum Overhung Load, Lbs	Volts 60 Hz	Full- Load Amps	Input Motor Type	Stock No.	Retail	Each	Shpg. Wt.
45	438	385	115	5.8	Split Phase	22847	\$142.32	\$94.88	39
89	219	245	115	5.8	Split Phase	22848	118.29	78.86	36
157	125	245	115	5.8	Split Phase	22849	117.77	78.51	37
157	125	245	208-220/440	1.4†	3-Phase	22851	143.70	95.80	36
288	69	245		5.8	Split Phase	22850	117.35	78.23	36

(†) At 220V. Also operable on 220/440V, 50 Hz at 5/6 of rated 60 Hz speed and torque.

1/3 to 2 HP, 1725 RPM, Open and Enclosed Models
208-220/440V, 50/60 Hz, and 230/460V, 60 Hz



Dayton

\$51.56

No. 2N913

Dayton Heavy-duty open and enclosed motors for direct drive jobs—pumps, machine tools, speed reducers and others that require NEMA 56C face mounting. 1/3 to 2 HP 3-phase models, 1725 RPM. Double-shielded, pre-lubricated ball bearings. Class A insulation. 40°C rise, open dripproof, and 55°C rise, totally enclosed, fan-cooled, continuous-duty motors are rated 208-220/440V, 50/60 Hz. (*) 40°C ambient motors are rated 230/460V, 60 Hz. 5/8" dia. x 1 7/8" shaft with keyway. Reversible rotation. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Gray finish. Dayton brand.

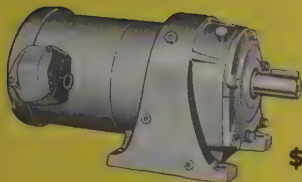
HP	Volts (*)	OPEN, DRIPPROOF MODELS					TOTALLY-ENCLOSED, FAN-COOLED				
		Stock No.	Temperature Rating	Retail	Each	Shg. Wt.	Stock No.	Temperature Rating	Retail	Each	Shg. Wt.
1/3	208-220/440	2N913	40°C Rise	\$78.75	\$51.56	18	2N915	55°C Rise	\$87.75	\$57.45	18
1/2	208-220/440	2N914	40°C Rise	82.50	54.01	19	2N916	55°C Rise	91.50	59.90	24
3/4	208-220/440	2N923	40°C Rise	97.50	63.83	23	2N924	55°C Rise	106.50	69.72	23
1	230/460	3N028	40°C Amb.	99.00	64.81	26	3N087	40°C Amb.	108.00	70.70	25
1 1/2	230/460	—	—	—	—	—	3N265	40°C Amb.	118.50	77.58	33
2	230/460	—	—	—	—	—	3N266	40°C Amb.	129.00	84.45	33

(*) 40°C and 55°C rise, 208-220/440V motors also operable on 50 Hz, 220/440V; 50°C rise on dripproof type, 65°C rise on enclosed type, continuous duty at 5/6 of 60 Hz speed.

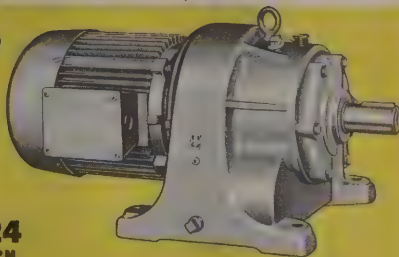
1 to 3 HP, 3-PHASE IN-LINE DAYTON GEARMOTORS

332 to 4202 In/Lbs Full-Load Torque. 45, 100 & 190 RPM
Totally Enclosed, Fan-Cooled Construction. 230/460V, 60 Hz

Dayton



\$294.24
1 HP, 190 RPM



143T-5 & 145T-5 Frames

145T-21, 182T-21 & 182T-30 Frames

Dayton heavy-duty, totally enclosed, fan-cooled, in-line gearmotors specifically designed for ambients containing dust, dirt and air-borne abrasives, and applications requiring low speed and high torque, such as conveyors, pumps, printing presses, mixers, etc.

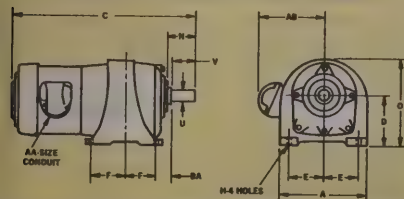
Input motors are 1 to 3 HP, 1800 RPM, 230/460V, 60 Hz, 40°C maximum ambient, 1.0 service factor. Totally enclosed, fan-cooled construction. Pre-lubricated ball bearings. Shaft rotation easily reversed by electrical reconnection. Gray finish. Dayton brand.

GEARCASE CONSTRUCTION FEATURES—ALL MODELS

Gearcase Assembly:	Integrally mounted to motor for compactness and proper gear alignment	
Pinions & Gears:	All steel, hardened to 55(+) on Rockwell C scale. Helical type for smooth, quiet operation	
Lubricant:	Turbine type. Shipped less oil in gearcase; instructions on gearcase specify proper oil.	
Frame:	143T-5 and 145T-5 (Nos. 22872, 22873, 22874, 22876 and 22877)	145T-21, 182T-21, 182T-30 (Nos. 22875, 32512, 32513 and 22878)
Seals:	Double-lip, on input and output shafts	"Labyrinth" type on input and output shafts
Bearings:		
Input Shaft	Shielded ball bearing	Shielded ball bearing
Gear Assemblies	Open ball bearing and tapered roller bearing	Tapered roller bearings
Output Shaft:	Tapered roller bearing	Tapered roller bearing
Gearcase Construction:	Die cast aluminum	Cast iron
Mounting Positions:	All-position mounting	Horizontal only (mounting feet on floor). No ceiling or side wall mount.

Input Motor HP	Full-Load Speed RPM	Full-Load Torque, in/Lbs	Input Motor Enclosure	Frame	Full-Load Amps @230V	Stock No.	Retail	Each	Shpg. Wt.
1	45	1400	TEFC	143T-5	3.8	22872	\$643.43	\$428.95	69
	100	630	TEFC	143T-5	3.8	22873	515.04	343.36	69
	190	332	TEFC	143T-5	3.8	22874	441.36	294.24	70
2	45	2801	TEFC	145T-21	6.8	22875	879.95	586.63	128
	100	1260	TEFC	145T-5	6.8	22876	697.73	465.15	75
	190	663	TEFC	145T-5	6.8	22877	596.87	397.91	73
3	45	4202	TEFC	182T-30	9.6	32512	1044.84	696.56	217
	100	1891	TEFC	182T-21	9.6	32513	821.12	547.41	147
	190	995	TEFC	182T-21	9.6	22878	696.99	464.66	151

GEARMOTOR DIMENSIONS—Inches



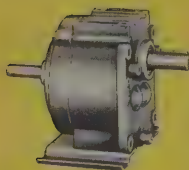
Frame	A	C	D	E	F	H Dia.	N
143T-5	8 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "	3"	1 $\frac{1}{2}$ "	2 $\frac{5}{8}$ "
145T-5	8 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "	3"	1 $\frac{1}{2}$ "	2 $\frac{5}{8}$ "
145T-21	12 $\frac{1}{2}$ "	20 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	5"	1 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "
182T-21	12 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	5"	1 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "
182T-30	15 $\frac{1}{2}$ "	26 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	3 $\frac{3}{8}$ "

Frame	O	U	V Min.	AA	AB	BA	Sq. Key
143T-5	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	6"	2 $\frac{1}{2}$ "	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ "
145T-5	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	6"	2 $\frac{1}{2}$ "	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ "
145T-21	11 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	6"	1 $\frac{1}{2}$ "	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ "
182T-21	11 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$ "
182T-30	13 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{4}$ x 2 $\frac{1}{2}$ "

SEE WARRANTY INFORMATION ON PAGE 684

15 to 72 RPM IN-LINE SPEED REDUCERS

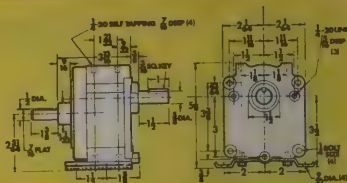
200 In/Lbs Maximum Full-Load Torque. 15, 33 or 72 RPM Output



Dayton

\$36.17

33 or 72 RPM
Models



Precision-built Dayton in-line speed reducers, specifically designed to provide long, trouble-free service life on heavy-duty applications; conveyors, chemical feeders, food processing equipment, mixers, and other low speed, high torque applications.

Long life and durability achieved through use of a heat-treated pinion, anti-friction needle bearings at all load-bearing positions, lip-type rubber seals on input and output shafts, and a heavy fluid lubricant.

Units are suitable for all-position mounting. Shipped with gearcase filled with heavy fluid gear oil.

Maximum input HP, 1/8 to 1/20, as listed in table below. Maximum input speed, 3450 RPM.

SPEED REDUCER CONSTRUCTION FEATURES

PINION AND GEARS: Steel; high-speed pinion and output gears are heat-treated

BEARINGS: Heavy duty needle roller type

GEAR CASE: Die-cast aluminum

SHAFT SEALS: Lip type on both shafts

LUBRICANT: Heavy fluid gear oil

BASE: Rigid type, steel. Removable to allow high or low output shaft position

ALL-POSITION MOUNTING

DAYTON IN-LINE SPEED REDUCER PERFORMANCE AND PRICES

Nominal Output RPM*	Ratio	Maximum Input HP @1725 RPM	Maximum Torque, In/Lbs	Stock No.	Retail	Each	Shpg. Wt.
15	118:1	1/20	200	22819	\$63.02	\$42.01	4 3/4
33	53:1	1/10	200	22820	54.26	36.17	4 3/4
72	24:1	1/8	100	22821	54.26	36.17	4 3/4

(*) With 1725 RPM input.

DOUBLE C-FACE MAGNETIC DISC BRAKES

3 & 6 Ft/Lb, 115/208-230V, 50/60 Hz 1 and 3-Phase Motor Input. For Use on NEMA 56C, 143TC & 145TC-Face Motors & Speed Reducers

Dayton

\$75.80

No. 6K233

Magnetic disc brakes, with detachable, rigid base designed for operation on single and 3-phase NEMA C-face motors up to 2 HP. Used on applications that require rapid stopping and holding power—conveyors, door openers and general machine drives. Brake is not intended for accurate positioning applications. Converts a NEMA C face motor to a NEMA 56 rigid mounted brake motor, or makes a brake gearmotor when mounted between motor and speed reducer. 3450 RPM maximum input. Rated torque value is designated for Service Factor 1 operation. Rated for operation on 115V/208-230V single phase, and 208-230V, 3-phase, 60 Hz. Also operates on 50 Hz, 110/208-220V maximum.

Brake engages and holds load under power-off condition and automatically releases when power is applied. Totally enclosed construction. Pre-lubricated, double-sealed ball bearing. No. 6K233 brake consists of NEMA 56C input face on one end and NEMA 56C output face with 5/8" dia. x 1 1/8" long keyed shaft on other end. No. 3M366 has NEMA 143TC and 145TC input face and can convert to 56C face input when used with 7/8" OD x 5/8" ID bushing supplied on one end. On opposite end, a NEMA 56C output face with 5/8" dia. x 1 1/8" long keyed shaft converts to a 143TC and 145TC face when used with 7/8" OD x 5/8" ID bushing supplied. 15" long leads for easy connection to motor. Overall length, less shaft, 5 7/8". Gray finish. Dayton brand.

Brake engages and holds load under power-off condition and automatically releases when power is applied. Totally enclosed construction. Pre-lubricated, double-sealed ball bearing. No. 6K233 brake consists of NEMA 56C input face on one end and NEMA 56C output face with 5/8" dia. x 1 1/8" long keyed shaft on other end. No. 3M366 has NEMA 143TC and 145TC input face and can convert to 56C face input when used with 7/8" OD x 5/8" ID bushing supplied on one end. On opposite end, a NEMA 56C output face with 5/8" dia. x 1 1/8" long keyed shaft converts to a 143TC and 145TC face when used with 7/8" OD x 5/8" ID bushing supplied. 15" long leads for easy connection to motor. Overall length, less shaft, 5 7/8". Gray finish. Dayton brand.

Torque, Ft/Lbs	Stock No.	Retail	Each	Shpg. Wt.
3	6K233	\$113.70	\$75.80	12
6	3M366	115.65	77.10	12

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 5S1943.

IN-LINE SPEED REDUCERS — 1/3 & 1/2 HP

30, 44, 60, & 91 RPM Output. General-Purpose Type. Reversible Rotation
Available with Single Phase and 3-Phase Open or TEFC Motors

Dayton parallel shaft, heavy-duty speed reducers are widely used for door openers, conveyors, mixers, power tools, and similar low-speed, high-torque applications. Built for direct drive with 1/3 and 1/2 HP (max.), 1725 RPM (max.), NEMA 56C face motors listing in combinations in table below. Housing is heat-treated and an-

nealed cast iron, precision machined for accurate alignment of gears. Heavy-duty, special hard steel spur gears, designed for continuous-duty operation. Ball bearing-supported 5/8" ID female input shaft sleeve, with key. Timken tapered roller bearings on output shaft to effectively withstand both axial and radial thrust. Lip-type seals, on input and output shafts, running on polished journals, prevent loss of lubricant.

Unit designed for horizontal floor operation only. 2" L x 1" dia. (with 1/4" x 1/8" keyway) horizontal in-line output shaft. Base of gearhead supports motor — separate base or couplings not required. Shipped with gear chamber filled with lubricant, ready for operation (recommend SAE #90 type EP differential oil for refills). Gearhead dimensions, less motor: 11 1/2" L x 7 1/4" W x 6 1/4" H, (see table below for dimensions of combination units). Machine gray finish.

Gearhead available separately and with the 32 Dayton ball bearing NEMA C face motors listed in combinations below — speed reducers and motors packed separately, easily set up with four bolts provided. Shpg. wt. (less motor) 26 lbs.



Dayton

No. 22070
Less Motor
\$77.01
Lots 3

Output RPM*	Ratio	1/3 HP	1/2 HP	Stock No.	—Less Motor—		
		Torque In/Lbs	Torque In/Lbs		Retail	Each	Lots 3
30	57.5:1	638	955	2Z068	\$134.06	\$89.37	\$82.99
44	39:1	435	651	2Z083	132.33	88.22	81.91
60	29:1	318	478	2Z069	131.28	87.52	81.27
91	19:1	217	326	2Z070	124.41	82.94	77.01

(* At 1725 RPM (maximum) input motor speed.

DEM PRICES AVAILABLE ON REQUEST

Reducer with Dayton Single Phase Capacitor, 1725 RPM, 115/230V, 60 Hz Ball Bearing Motor

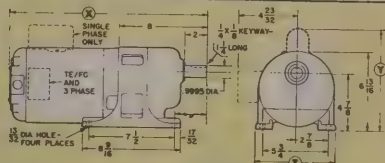
PERFORMANCE	Out- Motor HP	put RPM	Torque In/Lbs	REDUCER with DRIPPROOF MOTOR 50°C Rise, Continuous Duty					REDUCER with ENCLOSED, FAN-COOLED MTR. 55°C Rise, Continuous Duty				
				Stock No.	Retail	Each	Lots 3	Dim. Shpg. Ref. Wt.	Stock No.	Retail	Each	Lots 3	Dim. Shpg. Ref. Wt.
1/3	30	638		7Z135	\$199.00	\$131.60	\$125.22	A 47	7Z147	\$220.00	\$145.84	\$139.46	C 49
	44	435		7Z172	197.00	130.45	124.14	A 47	7Z176	219.00	144.69	138.38	C 49
	60	318		7Z136	196.00	129.75	123.50	A 47	7Z148	218.00	143.99	137.74	C 49
	91	217		7Z137	189.00	125.17	119.24	A 47	7Z149	211.00	139.41	133.48	C 49
1/2	30	955		7Z138	211.00	139.94	133.56	B 50	7Z150	234.00	154.61	148.29	D 53
	44	651		7Z173	210.00	138.79	132.48	B 50	7Z177	232.00	153.52	147.21	D 53
	60	478		7Z139	209.00	138.09	131.84	B 50	7Z151	231.00	152.82	146.57	D 53
	91	326		7Z140	202.00	133.51	127.58	B 50	7Z152	224.00	148.24	142.31	D 53

Reducer with Dayton 3-Phase, 1725 RPM, 208-220/440V, 60 Hz Ball Bearing Motor

PERFORMANCE	Out- Motor HP	put RPM	Torque In/Lbs	REDUCER with DRIPPROOF MOTOR 40°C Rise, Continuous Duty					REDUCER with ENCLOSED, FAN-COOLED MTR. 55°C Rise, Continuous Duty				
				Stock No.	Retail	Each	Lots 3	Dim. Shpg. Ref. Wt.	Stock No.	Retail	Each	Lots 3	Dim. Shpg. Ref. Wt.
1/3	30	638		7Z141	\$213.00	\$140.93	\$134.55	E 47	7Z153	\$222.00	\$146.82	\$140.44	G 47
	44	435		7Z174	211.00	139.78	133.47	E 47	7Z178	220.00	145.67	139.36	G 47
	60	318		7Z142	210.00	139.08	132.83	E 47	7Z154	219.00	144.97	138.72	G 47
	91	217		7Z143	203.00	134.50	128.57	E 47	7Z155	212.00	140.39	134.46	G 47
1/2	30	955		7Z144	217.00	143.38	137.00	F 48	7Z156	226.00	149.27	142.89	G 53
	44	651		7Z175	215.00	142.23	135.92	F 48	7Z179	224.00	148.12	141.81	G 53
	60	478		7Z145	214.00	141.53	135.28	F 48	7Z157	223.00	147.42	141.17	G 53
	91	326		7Z146	207.00	136.95	131.02	F 48	7Z158	216.00	142.84	136.91	G 53

DIMENSIONS—IN-LINE SPEED REDUCER

Dim. Ref.	X Long	Y High	Z Wide	Dim. Ref.	X Long	Y High	Z Wide
A	15 1/2"	8 1/2"	7 1/4"	E	15 1/2"	6 1/4"	7"
B	16 1/2"	8 1/2"	7 1/4"	F	16 1/2"	6 1/4"	7 1/4"
C	16 1/2"	8 1/2"	8"	G	16 1/2"	6 1/4"	8"
D	17 1/2"	8 1/2"	N				

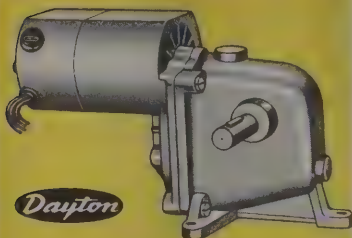


Get Delivery from Stock on over 95% of the Products in this MotorBook

SEE WARRANTY INFORMATION ON PAGE 684

1/15 HP AC/DC RIGHT ANGLE GEARMOTORS

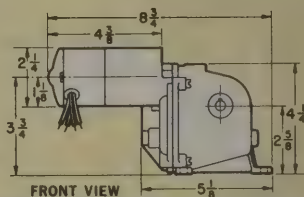
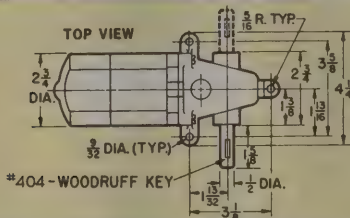
115V. 1/15 HP, 2.8 to 100 RPM, Full-Load. Single and Double Shaft Models. External Brush Caps
27 to 450 In/Lbs Full-Load Torque



\$37.97

Single Shaft
Models

High starting torque. Dayton gearhead motors. Powered by 1/15 HP, 5000 RPM full-load speed, 115V, AC/DC series wound motor. Has 1/4 x 1/4 shunted brushes with external brush caps. Brush life approximately 300 hours. Output speed varies with load (decreasing with increasing load, etc.)—this must be considered when applying. Speed can be adjusted by means of variable autotransformer, rheostat or solid-state controller (see solid-state controller listing below). No. 22797 for instant reversing applications. Motor integral part of gear unit for optimum gear/bushing alignment. Rotation electrically reversible by external reconnection—four 18" #18 AWG leads provided. Triple reduction, precision-cut gears; totally enclosed in grease-packed, die cast housing; phenolic first stage gear for reduced noise. Unit suitable for all-position mounting. Right angle drive. Hardened output shaft 1/2" dia. x 1 1/2" long, with Woodruff key (No. 22801 has double shafts, 1/2" dia. x 1 1/2" long, with Woodruff key; otherwise as No. 22800). Gray enamel finish. Shpg. wt. 6 lbs



Full Load Speed RPM	No Load* Speed RPM	Full Load Cont. Torque In/Lbs	Ratio	Shaft Extension	Shaft Height	Overall			Stock No.	Retail	Each
						H	W	D			
2.8	9	450	1787:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22797	\$56.96	\$37.97
6.7	24	182	745:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22798	56.96	37.97
12.8	37	110	390:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22799	56.96	37.97
21.0	66	100	238:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22800	56.96	37.97
21.0	66	100	238:1	Double	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22801	58.65	39.10
50.0	176	45	100:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22802	56.96	37.97
100.0	306	27	52:1	Single	2 5/8"	4 1/8"	8 3/4"	4 1/4"	22803	56.96	37.97

(*) No-load speed is approximate and will vary unit-to-unit.

REPLACEMENT PARTS FOR NOS. 22797 TO 22803 GEARMOTORS

Input Motor. 115V, AC-DC, 5000 RPM. Shpg. wt. 3 lbs. No. 2M172. Retail \$19.16. Each.....\$12.75
Brush Kit for No. 2M172 Input Motor. Package of 12, 1/4 x 1/4" shunted brushes with springs. Shpg. wt. 1 oz. No. 1R231. Retail \$2.04. Per package of 12.....\$1.30
Complete Armature for No. 2M172, Shpg. wt. 14 oz. No. 1R229. Retail \$6.03. Each.....\$4.00

PARTS FOR DISCONTINUED GEARMOTORS, NOS. 3M234 TO 3M240 AND INPUT MOTOR 2M157

Complete Armature for No. 2M157. Shpg. wt. 14 oz. No. 1R204. Retail \$7.86. Each.....\$5.40
Brush Kit for No. 2M157 Motor. Package of 12. Wt. 1 oz. No. 1R211. Retail \$10.99. Each.....\$7.75

SPEED CONTROLS FOR AC/DC AND SERIES DC MOTORS

Solid-State. With Electronic Feedback to Maintain Constant Torque

Turn of dial permits control of speed from 0 to 80% of full speed of power tools, appliances, sewing machines, grinders, blowers, pumps, gearmotors, that are driven by AC-DC (Universal) brush-type motors. Speed regulation is accomplished without loss of motor torque. Dial sets speed desired, electronic feed-back maintains speed, increasing voltage to motor as load increases. Full speed obtained by rotating dial to extreme clockwise position. 115V, 60 Hz input. Mount in panel or directly into standard "handy" boxes. 5 amp model uses single gang wall plate, 10 amp uses double gang plate (handy box and wall plate not included). Easy-to-follow instructions furnished.



\$9.16

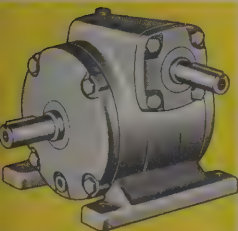
5 Amp,
Lots 12

OEM
Prices
on
Request

Max. Amps.	Stock No.	Retail	Each	Lots 3	Lots 6	Lots 12	Shpg. Wt.
5	4X796	\$16.08	\$10.72	—	\$9.79	\$9.16	3 oz.
10	4X797	29.45	19.63	\$18.22	—	16.84	6 oz.

RIGHT ANGLE, HEAVY-DUTY SPEED REDUCERS

AGMA Output Speeds up to 157 RPM. Built for Continuous Duty Application



Dayton

\$65.64

2" Center Distance
Lots 10

Designed for continuous-duty, high-torque, slow-speed applications. Especially suited for packaging and food processing equipment that requires multi-gear, jack-shaft applications. Widely used on conveyors, door openers, shop equipment and other applications requiring a compact, dependable speed reducer. Tapered roller bearings on output shaft for greater overhung load capacity. All-position mounting possible by relocating the vent plug. Double-lip seal at both input and output shafts; inner lip is spring-loaded to keep lubricant in and outer lip keeps dirt and other foreign matter out. Shot-peened, liquid-honed shafts for smooth sealing surfaces. 2" worm center distance. Speed reducer shipped ready for service on up to 1 HP max. input motor, come lubricated with SAE-90 oil. Machine gray finish. Dayton brand.

OEM PRICES AVAILABLE ON REQUEST

2" WORM CENTER DISTANCE

A	C	D	D'	E	F	H	N	N'
5 15/16	6 3/4	2 1/2	4 1/4	2 1/2	4 1/4	1 1/2	1 1/2	1 1/2
O	U		U'	V	V'	AB	XL	
5 15/16	.7495/.7490	.6245/.6240	1 1/8	1 1/16	2 1/4	7 11/16		

PERFORMANCE AND SPECIFICATIONS

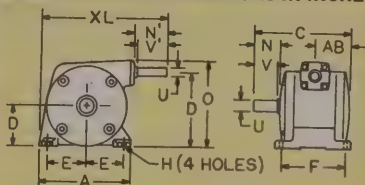
Stock No.	AGMA Output RPM (†)	Output Torque In/Lbs (†)	Max. Input HP (†)	Gear Ratio
22306	30	317	1/3	58:1
22307	45	375	1/2	39:1
22308	67	427	3/4	26:1
22309	96	393	1	18:1
22310	157	336	1	11:1

† Based on 1725 RPM input speed at max. HP. Lower input speed may be used with a proportional decrease in input HP and output speed. Lower input HP may be used with a proportional reduction in output torque.

SPEED REDUCER PRICES

Output RPM	Worm Center Distance	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
30	2"	22306	\$104.00	\$73.06	\$65.64	11
45	2"	22307	104.00	73.06	65.64	11
67	2"	22308	104.00	73.06	65.64	11
96	2"	22309	104.00	73.06	65.64	11
157	2"	22310	104.00	73.06	65.64	12

SPEED REDUCER DIMENSIONS IN INCHES



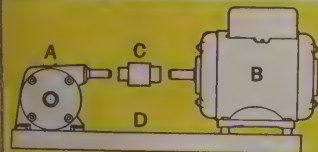
Recommended 1725 RPM Motors

Dayton brand, 40°C rise, continuous-duty, 1725 RPM dripproof motors. NEMA 56 frames. Capacitor type 115/230V, 60 Hz; 3-phase type 208/220/440V, 60 Hz. All have ball bearings. 5/8" dia. keyed shafts, 3 1/2" shaft height.

HP	Type	Stock No.	Retail	Each	Wt.
1/3	Capacitor	4K852	\$73.50	\$48.12	19
1/3	3-Phase	2N102	75.75	49.59	17
1/2	Capacitor	4K855	87.00	56.96	21
1/2	3-Phase	2N103	85.50	55.97	19
3/4	Capacitor	4K858	107.25	70.21	26
3/4	3-Phase	2N104	95.25	62.36	23
1	Capacitor	5K921	118.50	77.58	31
1	3-Phase	3N012	97.50	63.83	25

For other motors see Index under Motors.

SPEED REDUCER COMPONENTS IN TYPICAL ASSEMBLY

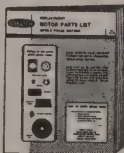


Item	Component Description	Stock No.	Retail	Each	Wt.
A	Speed Reducer (see above)				
B	Motor (see above)				
C	3-Piece Coupling:				
	5/8" Body	4X182	\$2.00	\$1.02	4 oz.
	5/8" Body	4X184	2.00	1.02	4 oz.
	*Spider	2X814	1.65	.85	1 oz.
D	Steel Mounting Base	1P675	18.69	14.02	15

(*) For complete coupling, order one body to fit speed reducer shaft, one body to fit motor shaft, and one spider (3 pieces).

FACTORY PARTS FOR DAYTON MOTORS AVAILABLE FROM STOCK

Genuine Dayton replacement parts are available from large Chicago stock. Same day shipping service. Single phase Dayton motor parts include: Centrifugal Switches (rotating & stationary), Bearings, Capacitors, Overload Protectors, Internal & External Fans, Capacitor

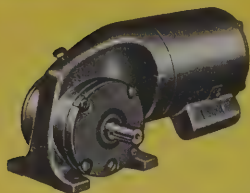


Covers, etc. Include Dayton motor stock and model number on order and send to nearest Grainger address.

Dayton Motor Parts List No. 5S1040 is available to motor repairers—request copy from your Grainger salesman or Sales Office/Warehouse.

RIGHT-ANGLE CAPACITOR GEARMOTORS

1/3 to 3/4 HP, 30, 45, 68, 100 & 155 RPM Output, 115/230V. Dripproof and Enclosed Types
177 to 757 In./Lbs. Full-Load Torque



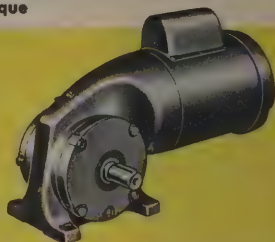
Open, Dripproof Type

Dayton

\$119.97

1/3 HP, 45, 68 or 100 RPM

FOR CONVEYORS,
PRINTING EQUIPMENT,
MIXERS, ETC.



Totally Enclosed, Fan Cooled

Dayton dependable and rugged capacitor-start gearmotors built for heavy-duty service on applications requiring a low-speed, high-torque drive such as conveyors, pumps, printing-presses, mixers, etc.

Motors are rated, 1/3 to 3/4 HP, 115/230V, 60 Hz., 40° C. maximum ambient temp, continuous (8-hour day) duty at rated output. 48-1 frame units are open, dripproof construction (OPEN). 56-16-6 and 56-22-6 frame units are totally-enclosed, (TEFC) for service in ambients of extreme dust, dirt or air-borne abrasives.

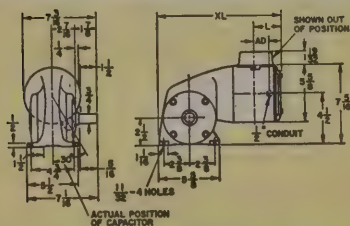
Integral construction, with motor mounted directly on gearcase, provides a more compact unit, permits better gear alignment and improves seal life. Forged bronze worm wheels, hardened steel worm gears. Die-cast aluminum

rotor. Gear case has open ball bearings to allow gear case lubricant to enter bearing; high-speed input shaft has a double-lipped oil seal. Two double-lipped oil seals on output (low speed) shaft provide four sealing surfaces for maximum protection in hostile atmospheres. Shipped less oil in gear box; instructions on gear box specify proper oil.

48-1 frame units have sleeve motor bearing; 56-16-6 and 56-22-6 frame units have prelubricated motor ball bearings. Gear case is made of a high-tensile strength die-cast aluminum.

Units may be mounted in any of four output shaft positions—horizontal, vertical, or at 90° angles, by interchanging the breather plug location. Shaft rotation easily reversed by electrical reconnection. Machine gray finish.

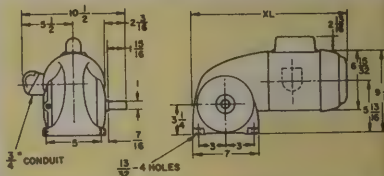
OPEN GEARMOTOR DIMENSIONS FRAME 48-1



VARIABLE DIMENSIONS

HP	AD	L	XL
1/3	2 ¹³ / ₁₆ "	4 ¹¹ / ₁₆ "	14 ⁵ / ₁₆ "
1/2	3 ³ / ₁₆ "	4 ²³ / ₃₂ "	14 ¹¹ / ₁₆ "

TEFC GEARMOTOR DIMENSIONS FRAMES 56-16-6 and 56-22-6



VARIABLE DIMENSIONS

Frame	XL
56-16-6	18 ³ / ₁₆ "
56-22-6	18 ¹ / ₁₆ "

REQUEST BULLETIN 305. It provides complete technical data on above gearmotors.

Motor HP	Full-Load Speed RPM	Full-Load Torque In/Lbs	Motor Enclosure	Frame	Shaft Dia.	Square Key	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/3	30	441	Open	48-1	3/4"	1/4"	6.5	5K535	\$275.00	\$128.33	29
	45	316	Open	48-1	3/4"	1/4"	6.5	5K536	257.00	119.97	29
	68	248	Open	48-1	3/4"	1/4"	6.5	5K537	257.00	119.97	29
	100	177	Open	48-1	3/4"	1/4"	6.5	5K538	257.00	119.97	29
	155	122	Open	48-1	3/4"	1/4"	6.5	5K539	257.00	119.97	29
1/2	30	705	TEFC	56-16-6	1	3/4"	7.4	5K539	428.00	199.68	48
	45	500	Open	48-1	3/4"	1/4"	8.6	5K540	316.00	147.27	30
	68	362	Open	48-1	3/4"	1/4"	8.6	5K541	316.00	147.27	30
	100	270	Open	48-1	3/4"	1/4"	8.6	5K542	280.00	131.32	29
	155	182	Open	48-1	3/4"	1/4"	8.6	5K919	280.00	130.65	30
3/4	45	757	TEFC	56-22-6	1	3/4"	10.6	5K544	459.00	214.28	54
	68	555	TEFC	56-22-6	1	3/4"	10.6	5K545	391.00	183.08	59
	100	395	TEFC	56-22-6	1	3/4"	10.6	5K546	391.00	182.87	53

RIGHT-ANGLE 3-PHASE GEARMOTORS

1/2 to 2 HP. 30, 45, 68, 100 & 155 RPM Output, Totally Enclosed Worm-Gear Type
277 to 2320 In/Lbs Full-Load Torque

Rugged, dependable and economical right-angle, totally enclosed Dayton gearmotors, built for heavy-duty service in ambients of extreme dust, dirt, or air-borne abrasives, on applications requiring a low-speed, high-torque drive such as conveyors, pumps, mixers, etc.

Motors rated 1/2, 1 and 2 HP, 1725 RPM, 230/460V 60 Hz. 40°C Max. ambient temp., continuous (8-hour day) duty at rated output.

Integral construction permits better gear alignment and improves seal life. Forged bronze worm wheels, hardened steel worm gears. Die-cast aluminum rotor. Gearcase has open ball bearings to allow gearcase lubricant to enter bearing. High speed input shaft has a double-lipped oil seal.

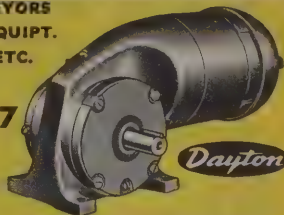
Two double-lipped oil seals on output (low speed) shaft provide four sealing surfaces for maximum protection in hostile atmospheres. Shipped less oil in gear box; instructions on gear box specify proper oil for normal duty.

Units have a permanently-lubricated, single-

FOR CONVEYORS
PRINTING EQUIPT.
MIXERS, ETC.

\$143.57

100 RPM
1/2 HP

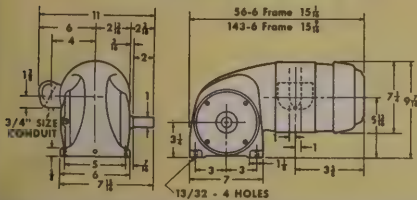


Shown: 1/2 HP, Single Reduction

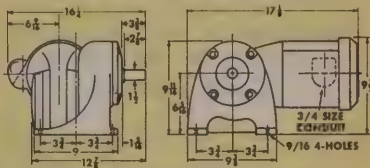
shielded motor ball bearing and a high tensile strength die-cast aluminum gear case.

May be mounted in horizontal, vertical, or at 90° angles by interchanging breather plug location. Shaft rotation easily reversed by electrical reconnection. Machine gray finish.

56-6, 143-6 & 145-6 SINGLE-REDUCTION MODEL FRAME DIMENSIONS



143-6 & 145-6 DOUBLE-REDUCTION MODEL FRAME DIMENSIONS



Rough casting dimensions may vary 1/4\".

Motor HP	Full Load RPM	Full-Load Torque In/Lbs	Enclosure	Reduction	Frame	Shaft Dia.	Full-Load Amps 230V, 60 Hz	Stock No.	Retail	Each	Shpg. Wt.
1/2	30	719	TEFC	Single	56-6	1"	2.1	3N169	\$403.00	\$187.80	38
	45	547	TEFC	Single	56-6	1"	2.1	3N170	347.00	161.95	38
	68	391	TEFC	Single	56-6	1"	2.1	3N171	347.00	162.03	38
	100	277	TEFC	Single	56-6	1"	2.1	3N172	307.00	143.57	38
1	30	1770	TEFC	Double	143-6	1 1/2	3.8	3N298	572.00	268.12	90
	45	954	TEFC	Single	143-6	1"	3.8	3N176	486.00	226.47	45
	68	750	TEFC	Single	143-6	1"	3.8	3N173	486.00	226.47	46
	100	550	TEFC	Single	143-6	1"	3.8	3N174	406.00	189.52	45
	155	369	TEFC	Single	143-6	1"	3.8	3N175	406.00	189.52	46
2	45	2320	TEFC	Double	145-6	1 1/2	6.4	3N299	610.00	285.70	95
	68	1560	TEFC	Double	145-6	1 1/2	6.4	3N300	610.00	285.95	97
	155	714	TEFC	Single	145-6	1"	6.4	3N301	540.00	251.70	51

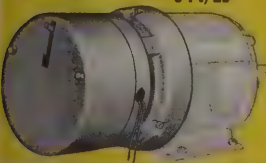
3 & 6 FT/LB MODULAR BRAKE KITS

Fit Dayton Motor and Gearmotor Models Listed Below

Dayton magnetic disc brakes, designed to mount on 26 totally enclosed, fan-cooled right angle gearmotors and horizontal motors listed below. Used on applications that require rapid stopping and holding action—conveyors, door openers, etc.

Brakes mount directly on 230/460V, 60/50 Hz, three phase motors and gearmotors listed, using conversion parts contained in kit. Weatherproof construction. Brake engages and holds load under power-off condition, automatically releases when power is applied. Load can be manually released when power is off by switching release lever. 13" long leads. Overall length 4 1/4", diameter 6 5/8". Gray finish. Dayton brand.

Dayton **\$77.65**
3 Ft/Lb

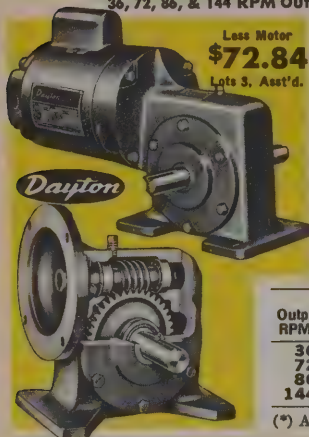


Torque Ft/Lbs	Fits these Dayton Motor and Gearmotor Models:									Stock No.	Retail	Each	Shpg. Wt.
3	3N033	3N079	3N080	3N169	3N170	3N171	3N172	3N173	3N174	3M360	\$116.48	\$77.65	8
	3N175	3N176	3N295	3N296	3N298	2Z872	2Z873	2Z874	3Z499				
6	3N034	3N035	3N074	3N299	3N300	3N301	2Z875	2Z876		2Z871	127.95	85.30	8

SEE WARRANTY INFORMATION ON PAGE 684

RIGHT-ANGLE SPEED REDUCERS—1/3, 1/2 & 3/4 HP

36, 72, 86, & 144 RPM Output. Double Shafts. Worm Gears. Reversible Rotation



Less Motor
\$72.84
Lots 3, Asst'd.

For continuous-duty on door openers, conveyors, mixers, and similar low speed, high-torque applications. Right-angle configuration permits mounting in limited space. Built for direct drive with 1/3, 1/2, and 3/4 HP (max.), 1725 RPM (max.), NEMA 56C flange motors listed in combinations in table below. Housing is heat-treated and annealed cast-iron, precision machined for accurate alignment of gears. Worm is case-hardened steel with ground and polished threads, mounted in ball bearings with thrust washers. Mating worm (output) gear is high-tensile strength bronze with high manganese and silicon content, forged and heat-treated for maximum life. Unit designed for horizontal floor operation only.

Output shafts 2 1/4" L x 1" dia. (3/4 x 1/8" keyway). Timken tapered roller bearings on output shaft. Ball bearing-supported 5/8" ID female input shaft sleeve. Shipped filled with lubricant, ready for operation. Gearhead dimensions, less motor: 8 1/16" L x 8 3/4" W x 9 1/4" H. Gray finish. Shpg. wt. (less motor): 31 lbs.

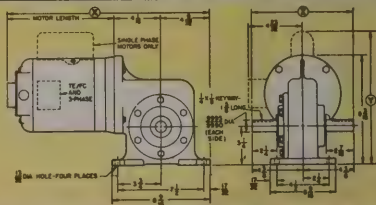
Output RPM*	Ratio	1/3 HP Torque, In/Lbs	1/2 HP Torque, In/Lbs	3/4 HP Torque, In/Lbs	Stock No.	Retail	Each	Less Motor Lots 3 Asst'd.
36	48:1	318	475	—	22151	\$117.68	\$78.45	\$72.84
72	24:1	205	307	460	22152	117.68	78.45	72.84
86	20:1	185	278	415	22153	117.68	78.45	72.84
144	12:1	127	188	280	22154	117.68	78.45	72.84

(*) At 1725 RPM (max.) motor input speed.

RIGHT-ANGLE SPEED REDUCER DIMENSION REFERENCE

For Units Listed Below

Dim. Ref.	X Long	Y High	Z Wide	Dim. Ref.	X Long	Y High	Z Wide
A	16 1/2"	10 1/2"	8 3/4"	F	19"	11 1/2"	9 1/2"
B	16 1/2"	10 1/2"	8 3/4"	G	14 1/4"	9 1/2"	8 3/4"
C	17 1/4"	10 1/2"	9"	H	16 1/2"	9 1/2"	8 3/4"
D	18"	10 1/2"	9"	J	17 1/4"	9 1/2"	9"
E	18 3/4"	11 1/8"	8 3/4"	K	17 3/4"	9 1/2"	8 3/4"



REDUCER WITH DAYTON SINGLE PHASE, 1725 RPM, 115/230V, 60 Hz BALL BEARING MOTORS

PERFORMANCE				REDUCER with DRIPPROOF MOTOR 50°C Rise, Continuous Duty, Capacitor Type					REDUCER & ENCLOSED, FAN-COOLED MTR. 55°C Rise, Continuous Duty, Capacitor Type				
Motor HP	Out RPM	Torque In/Lbs		Stock No.	Retail	Each	Lots 3 Asst'd.	Dim. Ref. Wt.	Stock No.	Retail	Each	Lots 3 Asst'd.	Dim. Ref. Wt.
1/3	36	318		72228	\$182.00	\$120.68	\$115.07	A 50	72239	\$204.00	\$134.92	\$129.31	C 52
	72	205		72229	182.00	120.68	115.07	A 50	72240	204.00	134.92	129.31	C 52
	86	185		72230	182.00	120.68	115.07	A 50	72241	204.00	134.92	129.31	C 52
	144	127		72231	182.00	120.68	115.07	A 50	72242	204.00	134.92	129.31	C 52
1/2	36	475		72232	195.00	129.02	123.41	B 53	72243	217.00	143.75	138.14	D 56
	72	307		72233	195.00	129.02	123.41	B 53	72244	217.00	143.75	138.14	D 56
	86	278		72234	195.00	129.02	123.41	B 53	72245	217.00	143.75	138.14	D 56
	144	188		72235	195.00	129.02	123.41	B 53	72246	217.00	143.75	138.14	D 56
3/4	72	460		72236*	225.00	148.66	143.05	E 59	72247	234.00	154.56	148.95	F 61
	86	415		72237*	225.00	148.66	143.05	E 59	72248	234.00	154.56	148.95	F 61
	144	280		72238*	225.00	148.66	143.05	E 59	72249	234.00	154.56	148.95	F 61

(*) 3/4 HP are 40°C. rise, continuous duty.

REDUCER WITH DAYTON 3-PHASE, 1725 RPM, 208-220/440V, 60 Hz BALL BEARING MOTORS

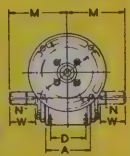
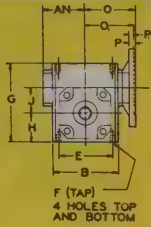
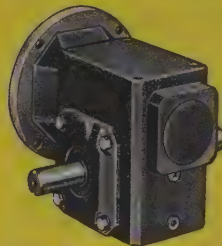
PERFORMANCE				REDUCER with DRIPPROOF MOTOR 40°C Rise, Continuous Duty, 3-Phase Type					REDUCER & ENCLOSED, FAN-COOLED MTR. 55°C Rise, Continuous Duty, 3-Phase Type				
Motor HP	Out RPM	Torque In/Lbs		Stock No.	Retail	Each	Lots 3 Asst'd.	Dim. Ref. Wt.	Stock No.	Retail	Each	Lots 3 Asst'd.	Dim. Ref. Wt.
1/3	36	318		72250	\$196.00	\$130.01	\$124.40	G 50	72261	\$205.00	\$135.90	\$130.29	J 50
	72	205		72251	196.00	130.01	124.40	G 50	72262	205.00	135.90	130.29	J 50
	86	185		72252	196.00	130.01	124.40	G 50	72263	205.00	135.90	130.29	J 50
	144	127		72253	196.00	130.01	124.40	G 50	72264	205.00	135.90	130.29	J 50
1/2	36	475		72254	200.00	132.46	126.85	H 51	72265	209.00	138.35	132.74	J 56
	72	307		72255	200.00	132.46	126.85	H 51	72266	209.00	138.35	132.74	J 56
	86	278		72256	200.00	132.46	126.85	H 51	72267	209.00	138.35	132.74	J 56
	144	188		72257	200.00	132.46	126.85	H 51	72268	209.00	138.35	132.74	J 56
3/4	72	460		72258	215.00	142.28	136.67	K 55	72269	224.00	148.17	142.56	J 55
	86	415		72259	215.00	142.28	136.67	K 55	72270	224.00	148.17	142.56	J 55
	144	280		72260	215.00	142.28	136.67	K 55	72271	224.00	148.17	142.56	J 55

DAYTON RIGHT ANGLE GEAR REDUCERS—1/4 to 7½ HP

NEMA C Face, Double Output Shaft, Worm Gear, Reversible Rotation

Designed for continuous duty, Nos. 4Z001 to 4Z007 low speed, high torque applications with NEMA C face, 1725 RPM motors (not included). Top quality construction includes cast iron housing, high strength steel output shaft with key and plastic cover, tapered roller bearing, and hardened and polished steel worm mating with forged and heat treated high manganese bronze worm gear. Continuous duty rated. Supplied with AGMA #8 lubricant in gear chamber. Mount in any position except with input motor shaft up; can be vertical or horizontal mounted with bases listed below (order separately).

\$66.56



INPUT SHAFT DIMENSIONS		
Stock Nos.	Bore Diameter	Keyway
4Z001 to 4Z017	5/8"	3/16 x 3/8"
4Z018 to 4Z020	1 1/8"	1/4 x 1/2"
4Z021	1 3/8"	5/16 x 5/8"

OUTPUT SHAFT DIMENSIONS				Keyway
Stock Nos.	M	N	W	
4Z001 to 4Z007	4 3/8"	5 3/8"	1 3/4"	3/16 x 3/8"
4Z008 to 4Z014	4 11/16"	1"	2"	1/4 x 1/2"
4Z015 to 4Z021	7 1/8"	1 1/2"	3 5/8"	5/8 x 3/4"

Worm Center Distance	GEAR REDUCER DIMENSIONS										Motor Frame Size			
	A	B	D	E	F	G	H	J	AN		56C		182, 184 TC	
	O	P											O ₁	P ₁
1.33"	3 1/2"	4 1/2"	3"	3"	1 1/2-20	4 1/8"	1 3/4"	1 1/2"	2 3/4"	3 5/8"	3 5/8"	1 1/2"	—	—
2.06	3 3/4"	5 1/2"	3	4 3/4"	6 1/8-18	6 3/8"	2 3/4"	2 1/4"	3 1/2"	4 1/4"	4 1/4"	1 1/2"	—	—
3.25	5"	8 1/2"	4	7 1/2"	7 1/8-14	9 3/8"	3 1/2"	3 1/4"	5 1/8"	5 1/16"	5 1/16"	1 1/2"	6 1/4"	9 1/8"
													O ₁	P ₁
													6 1/4"	9 1/8"
													6 1/4"	9 1/8"

SELECTION DATA AND PRICES

Output RPM with 1725 RPM Input	Worm Center Distance In Inches	NEMA Frame Size	Ratio	CONTINUOUS DUTY OUTPUT TORQUE In/Lbs. at Input HP @ 1725 RPM (1.0 SERVICE FACTOR)										Stock No.	Retail	Each	Shpg. Wt.
				1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	2 HP	3 HP	5 HP	7 1/2 HP				
				HP	HP	HP	HP	HP	HP	HP	HP	HP	HP				
29	1.33	56C	60:1	272	—	—	—	—	—	—	—	—	—	4Z001	\$113.00	\$66.56	22
29	2.06	56C	60:1	—	427	641	—	—	—	—	—	—	—	4Z008	150.00	88.35	36
29	3.25	56C	60:1	—	—	—	994	1326	—	—	—	—	—	4Z015	260.50	183.91	96
43	1.33	56C	40:1	225	—	—	—	—	—	—	—	—	—	4Z002	113.00	66.56	22
43	2.06	56C	40:1	—	333	500	—	—	—	—	—	—	—	4Z009	150.00	88.35	36
43	3.25	56C	40:1	—	—	—	799	1066	1599	—	—	—	—	4Z016	260.00	183.91	96
58	1.33	56C	30:1	182	242	—	—	—	—	—	—	—	—	4Z003	113.00	66.56	22
58	2.06	56C	30:1	—	—	414	621	—	—	—	—	—	—	4Z010	150.00	88.35	36
58	3.25	56C	30:1	—	—	—	—	829	1244	1659	—	—	—	4Z017	260.00	183.91	96
86	1.33	56C	20:1	137	183	275	—	—	—	—	—	—	—	4Z004	113.00	66.56	22
86	2.06	56C	20:1	—	—	—	447	597	—	—	—	—	—	4Z011	150.00	88.35	36
86	3.25	182TC	20:1	—	—	—	—	—	—	—	1911	—	—	4Z018	260.00	183.91	96
115	1.33	56C	15:1	108	144	216	—	—	—	—	—	—	—	4Z005	113.00	66.56	22
115	2.06	56C	15:1	—	—	—	344	459	689	—	—	—	—	4Z012	150.00	88.35	36
115	3.25	182TC	15:1	—	—	—	—	—	—	—	1368	—	—	4Z019	260.00	183.91	96
173	1.33	56C	10:1	76	102	153	230	—	—	—	—	—	—	4Z006	113.00	66.56	22
173	2.06	56C	10:1	—	—	—	—	315	472	630	—	—	—	4Z013	150.00	88.35	36
173	3.25	184TC	10:1	—	—	—	—	—	—	—	937	1563	—	4Z020	260.00	183.91	96
345	1.33	56C	5:1	40	53	80	120	160	—	—	—	—	—	4Z007	113.00	66.56	22
345	2.06	56C	5:1	—	—	—	—	—	249	332	—	—	—	4Z014	150.00	88.35	36
345	3.25	213TC	5:1	—	—	—	—	—	—	—	—	—	1201	4Z021	260.00	183.91	96

MOUNTING BASE KITS FOR ABOVE GEAR REDUCERS

Cast iron constructed. For vertical or horizontal mounting of Dayton reducers shown above. Hardware included.

HORIZONTAL BASE DIMENSIONS AND PRICES

Worm C. D.	A	B	C	E	H	I	J	K	P	R	Stk. No.	Each	Wt.
1.33"	5 5/8"	2 1/8"	1 1/2"	2 5/8"	1 1/8"	3/4"	1 1/2"	—	—	—	6X499	\$3.50	2
2.06	7 1/8"	2 1/4"	2 3/8"	3 3/8"	1 3/8"	7/8"	1 3/8"	—	—	—	6X500	5.53	3
3.25	11 1/2"	2 1/2"	7/8"	4 3/4"	1 3/8"	1 1/8"	1 3/8"	—	—	—	6X501	9.13	8

VERTICAL BASE DIMENSIONS AND PRICES

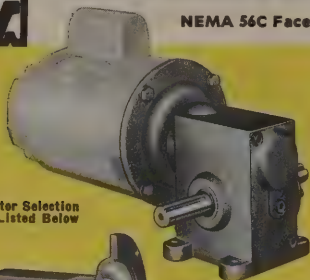
	A	B	C	E	H	I	J	K	P	R	Stk. No.	Each	Wt.
1.33"	4 1/4"	4 1/8"	1 3/8"	1 1/2"	1 1/8"	3"	1 3/8"	3"	1 1/8"	2 5/8"	6X502	9.42	4
2.06	6"	5"	1 1/2"	1 1/8"	2 3/8"	3"	1 5/8"	4 7/8"	1 5/8"	1"	6X503	12.78	4
3.25	8 3/2"	7 3/8"	2"	1 1/8"	3 3/4"	4"	2 1/8"	6 3/8"	1 5/8"	1 1/4"	6X504	18.38	12



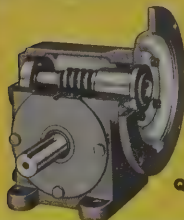


RIGHT-ANGLE SPEED REDUCERS—1/3 to 2 HP

NEMA 56C Face. Double Output Shaft. Worm Gear. Reversible Rotation



See Motor Selection Guide Listed Below



\$84.15

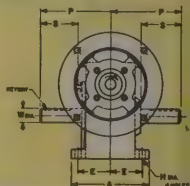
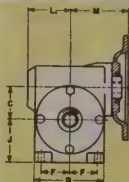
1.33" Center Distance Models, Less Motor

DEM PRICES QUOTED ON REQUEST

Winsmith J-R series speed reducers have top quality construction features, including:

(1) Cast iron housing, (2) Alloy output shaft with key and plastic shaft cover, plus tapered roller bearings, (3) Hollow input shaft (5/8" ID) with ball bearing support, and (4) Hardened ground worm, bronze mating gear.

Designed for low speed, high torque applications such as door openers, conveyors, mixers etc. All units are continuous-duty rated and supplied ready-to-use with all-weather lubricant gear chamber. Compact design permits mounting to floor, wall or ceiling by interchanging vent plugs. Reducers are easily mounted to Dayton motors listed below.



DIMENSIONS AND WEIGHTS

Mfr's. Model	A	B	C	E	F	H	J	L ₁	M	P	Output Shaft W	Dimensions S	Keyway	Shpg. Wt.
M133T	4 7/8"	3 3/4"	1.33"	2"	1 1/2"	1 3/4"	2 1/8"	2 1/4"	3 5/8"	4"	5/8"	1 7/8"	3/4" x 3/16"	15
M200T	4 7/8"	4 3/8"	2.00"	2"	1 3/4"	1 3/4"	2 5/8"	2 3/8"	3 3/4"	4 3/8"	7/8"	2 3/8"	3/4" x 3/8"	20
M300T	7 3/4"	7 1/4"	3.00"	3 1/4"	2 5/8"	2 5/8"	4"	3 1 3/8"	5 3/8"	5 1/8"	1 5/8"	2 1 1/8"	3/4" x 1/2"	53

SELECTION DATA and PRICES

Output RPM with 1725 RPM Input	Mfr's. Model Ratio		CONTINUOUS DUTY OUTPUT TORQUE In/Lbs At Input HP @ 1725 RPM (1.0 SERVICE FACTOR)						Center Dis- tance	Stock No.	Retail Each	
			1/3 HP	1/2 HP	3/4 HP	1 HP	1½ HP	2 HP				
29	M200T	60 to 1	299	429	—	—	—	—	2.0"	22721	\$114.00	\$102.60
29	M300T	60 to 1	—	—	907	1085	—	—	3.0	22723	213.00	191.70
35	M200T	50 to 1	269	456	—	—	—	—	2.0	22720	114.00	102.60
35	M300T	50 to 1	—	—	782	1108	—	—	3.0	22722	213.00	191.70
43	M133T	40 to 1	164	—	—	—	—	—	1.33	22713	93.50	84.15
43	M200T	40 to 1	—	383	463	—	—	—	2.0	22719	114.00	102.60
43	M300T	40 to 1	—	—	—	940	1203	—	3.0	22700	213.00	191.70
58	M133T	30 to 1	182	—	—	—	—	—	1.33	22712	93.50	84.15
58	M200T	30 to 1	—	310	483	—	—	—	2.0	22718	114.00	102.60
58	M300T	30 to 1	—	—	—	739	1158	1216	3.0	22699	213.00	191.70
86	M133T	20 to 1	126	167	—	—	—	—	1.33	22711	93.50	84.15
86	M200T	20 to 1	—	—	372	473	—	—	2.0	22717	114.00	102.60
86	M300T	20 to 1	—	—	—	—	841	1152	3.0	22698	213.00	191.70
115	M133T	15 to 1	108	180	—	—	—	—	1.33	22710	93.50	84.15
115	M200T	15 to 1	—	—	292	405	—	—	2.0	22716	114.00	102.60
115	M300T	15 to 1	—	—	—	—	665	911	3.0	22697	213.00	191.70
172	M133T	10 to 1	73	123	156	—	—	—	1.33	22709	93.50	84.15
172	M200T	10 to 1	—	—	—	286	444	—	2.0	22715	114.00	102.60
172	M300T	10 to 1	—	—	—	—	—	626	3.0	22696	213.00	191.70
345	M133T	5 to 1	40	67	107	131	—	—	1.33	22708	93.50	84.15
345	M200T	5 to 1	—	—	—	—	230	312	2.0	22714	114.00	102.60

RECOMMENDED DAYTON 1725 RPM C-FLANGE MOTOR SELECTION GUIDE†

Motor Type	Phase	Volts 60 Hz	1/3 HP Motor		1/2 HP Motor		3/4 HP Motor		1 HP Motor		1 1/2 HP Motor		2 HP Motor	
			Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.	Each
Open	1	115/230	6K005	\$52.54	6K340	\$60.57	6K435	\$70.21	6K873	\$77.58	—	—	—	—
	3	230/460†	2N913	51.56	2N914	54.01	2N923	63.83	3N028	64.81	—	—	—	—
TEFC	1	115/230	6K341	56.47	6K342	66.30	6K436	76.11	6K874	83.96	6K702	\$106.55	—	—
	3	230/460†	2N915	57.45	2N916	59.90	2N924	69.72	3N087	70.70	3N265	77.58	3N266	\$84.45
Ex. Prf.	1	115/230	6K330	95.75	6K333	104.58	6K728	117.84	—	—	—	—	—	—

(†) For other specifications, see Index under Motors—Special Types, Flange Mount. (†) 1/2, 3/2 and 3/4 HP—208/220/440 volts.

RIGHT-ANGLE SPEED REDUCERS — 1/3 to 2 HP

Non-Motorized Design. Double Output Shaft. Worm Gear. Reversible Rotation

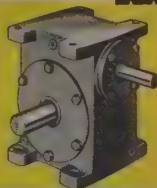


Winsmith J-R series non-motorized worm gear speed reducers are designed for continuous duty, high torque, low-speed applications. Top quality construction features include cast iron housing, steel alloy output shaft with key and plastic shaft cover, plus tapered roller bearings, keyed input shaft with ball bearing support, and hardened ground worm, bronze mating gear. Units supplied with lubricant in gear chamber. Compact design permits all position mounting by interchanging vent plugs. Reducers may be converted to shallow or deep mounting heights by installing optional angle bracket kits (order separately; see listing at bottom of page).

\$75.15

1.33" Center Distance

OEM PRICES QUOTED ON REQUEST



SHAFT DIMENSIONS

Model	Input Shaft N		Keyway	
133U-16	1 1/8"	1 1/8"	1 1/8" x 1/8" x 1/8"	
200U-16	1 1/2"	1 1/2"	1 1/2" x 1/8" x 1/8"	
300U-16	1 3/4"	1 3/4"	1 3/4" x 1/8" x 1/8"	
Model	Output Shaft S		Keyway	
133U-16	1 1/8"	1 1/8"	1 1/8" x 1/8" x 1/8"	
200U-16	1 1/2"	1 1/2"	1 1/2" x 1/8" x 1/8"	
300U-16	1 3/4"	1 3/4"	1 3/4" x 1/8" x 1/8"	

(*) Output shaft (slow speed) tolerance + .001 — .001.

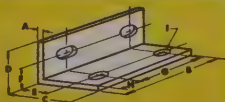
DIMENSIONS and WEIGHTS

Mfr's. Model	A	B	C	E	F	H	J	L	M	O	P	Shpg. Wt.
133U-16	4 7/8"	3 3/4"	1.33"	2"	1 1/4"	1 1/2"	2 1/8"	2 1/8"	3 7/8"	4.96"	4"	15
200U-16	4 7/8"	4 3/8"	2	2	1 1/2"	1 3/4"	2 5/8"	2 5/8"	4 5/8"	6 3/8"	4 3/8"	22
300U-16	7 3/4"	7 3/4"	3	3 1/4"	2 3/8"	2 1/2"	4	3 1/8"	6 3/8"	9 3/4"	5 1/8"	60

SELECTION DATA and PRICES

Output RPM with 1725 RPM Input	Mfrs. Model	Ratio	CONTINUOUS DUTY OUTPUT TORQUE In/Lbs. at Input HP @ 1725 RPM (1.0 SERVICE FACTOR)						Center Distance	Stock No.	Retail	Each
			1/3 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	2 HP				
29	200U-16	60 to 1	299	429	—	—	—	—	2.0"	22954	\$ 99.00	\$ 89.10
29	300U-16	60 to 1	—	—	907	1085	—	—	3.0"	22961	187.00	168.30
35	200U-16	50 to 1	269	456	—	—	—	—	2.0"	22953	99.00	89.10
35	300U-16	50 to 1	—	—	782	1108	—	—	3.0"	22960	187.00	168.30
43	133U-16	40 to 1	164	—	—	—	—	—	1.33	22946	83.50	75.15
43	200U-16	40 to 1	—	383	463	—	—	—	2.0"	22952	99.00	89.10
43	300U-16	40 to 1	—	—	—	940	1203	—	3.0"	22959	187.00	168.30
58	133U-16	30 to 1	182	—	—	—	—	—	1.33	22945	83.50	75.15
58	200U-16	30 to 1	—	310	483	—	—	—	2.0"	22951	99.00	89.10
58	300U-16	30 to 1	—	—	—	739	1158	1216	3.0"	22958	187.00	168.30
86	133U-16	20 to 1	126	167	—	—	—	—	1.33	22944	83.50	75.15
86	200U-16	20 to 1	—	—	372	473	—	—	2.0"	22950	99.00	89.10
86	300U-16	20 to 1	—	—	—	—	841	1152	3.0"	22957	187.00	168.30
115	133U-16	15 to 1	108	180	—	—	—	—	1.33	22943	83.50	75.15
115	200U-16	15 to 1	—	—	292	405	—	—	2.0"	22949	99.00	89.10
115	300U-16	15 to 1	—	—	—	—	665	911	3.0"	22956	187.00	168.30
172	133U-16	10 to 1	73	123	156	—	—	—	1.33	22942	83.50	75.15
172	200U-11	10 to 1	—	—	—	286	444	—	2.0"	22948	99.00	89.10
172	300U-16	10 to 1	—	—	—	—	—	626	3.0"	22955	187.00	168.30
345	133U-16	5 to 1	40	67	107	131	—	—	1.33	22941	83.50	75.15
345	200U-16	5 to 1	—	—	—	—	230	312	2.0"	22947	99.00	89.10

ANGLE BRACKET KITS FOR ABOVE SPEED REDUCERS



Kits allow shallow or deep mount positions for vertical output shaft applications. Bolt to feet of reducer. Kit includes two steel brackets and hardware.

No. 6X356. Kit for 1.33 and 2.00" C.D. reducers. Shpg. wt. 3 lbs. Retail \$8.30. Each.....\$7.47

No. 6X357. Kit for 3.00" C.D. reducers. Shpg. wt. 7 lbs. Retail \$10.70. Each.....\$9.63

Stock No.	A	B	C	D	E	F	G	H	I
6X356	1 1/4"	4 3/8"	2"	1 1/4"	1 1/4"	3/4"	3"	1 1/4"	1 1/2"
6X357	3/8"	7 3/4"	2 1/2"	2	1 3/4"	1	5 1/4"	1	2 1/8"

SEE WARRANTY INFORMATION ON PAGE 684

CONSTANT TORQUE, ADJUSTABLE SPEED MOTORS

3/4 and 1½ HP, 60/50 Hz DC Permanent Magnet Motors. Totally Enclosed, Fan-Cooled Construction



Dayton
\$223.03
No. 2Z846

3/4 HP
Shown

Dayton adjustable speed drives, consisting of totally enclosed, fan-cooled DC permanent magnet motor, powered from and regulated by a 115V (on 3/4 HP) or 230V (on 1½ HP). 60/50 Hz controller which supplies DC rectified power to the motor. This motor/controller combination provides adjustable speed while maintaining constant torque throughout speed range.

Typical applications are packaging equipment, pumps, fans, blowers and other constant or diminishing-torque applications. NOT for saws, drill presses or other constant HP applications.

Controller is supplied mounted to bracket on end of motor, has 8 ft., 3-conductor cord joining it to motor to allow for remote mounting if desired, plus 8 ft., 3-conductor cord set for connecting to AC power source. Motor rated 3/4 or 1½ HP. Totally enclosed, fan-cooled construction, continuous duty, Class F insulation. Pre-lubricated ball bearings. External brushes for easy maintenance. NEMA 56C mounting face; removable rigid base, NEMA 56 frame on 3/4 HP and 56H 1½ HP.

MOTOR CONTROLLER FEATURES

Speed Range: 20 to 1, constant torque 3/4 HP and 30 to 1, 1½ HP

Speed Regulation: Within 5% of base speed 3/4 HP and 2% 1½ HP
Full-Wave Rectification

Current/Torque Limit: Built-in (fixed)

IR Compensation: Built-in (fixed)

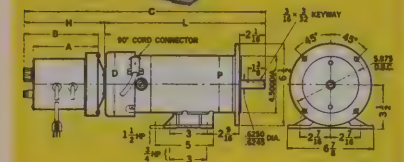
Transient and Surge Protection
Line Voltage Compensation

All Control Circuitry on One Printed Board

Control and Motor Protection: Fused

Forward/Reverse Switch, On/Off Switch

Power-On Indicator Light



Stock No.	A	B	C	D	H	L	P
2Z846	6	5 1/4	18 1/4	6 1/4	6 1/4	12 1/4	4 1/2
2Z881	6	6 3/4	24 1/4	6 3/4	7 1/4	17 1/4	6 1/2

Speed RPM	Continuous Duty HP		Full-Load Torque In/Lbs		% Full-Load Torque
	No. 2Z846	No. 2Z881	No. 2Z846	No. 2Z881	
2500	3/4	1 1/4	19.7	37.8	100%
2000	5/8	1 1/4	19.7	37.8	100%
1600	1/2	1	19.7	37.8	100%
1250	3/8	3/4	19.7	37.8	100%
800	1/4	1/2	19.7	37.8	100%
400	1/8	1/4	19.7	37.8	100%
200	1/16	1/8	19.7	37.8	100%
125	1/25	1/12	19.7	37.8	100%
83	—	1/20	—	37.8	100%

HP	Volts 60/50 Hz	Stock No.	Retail	Each	Shpg. Wt.
3/4	115	2Z846	\$334.55	\$223.03	29
1 1/2	230	2Z881	515.75	343.83	57

1/30 to 1/6 HP DC ADJUSTABLE SPEED CONTROLLER

For Permanent Magnet and Shunt-Wound DC Motors

Input: 115V, 60/50 Hz. Output: 0-90VDC Armature, 100VDC Field



Simple, reliable, compact Dayton full-wave solid state SCR controller for use with 1/30 to 1/6 HP, 90VDC armature permanent magnet motors and 90VDC armature/100VDC field shunt-wound motors. For new and replacement use on drives for conveyors, packaging machines, machine tools and other similar constant or diminishing torque applications. Not for use with drill presses, saws or other constant HP applications.

Controller measures 9" high, 5" wide, 4" deep. Black finish. Dayton brand Shpg. wt. 5 lbs.

DAYTON
SCR CONTROLLER
FEATURES

\$83.90

Dayton

Speed Range: 20:1, constant torque.
Speed Regulation: Within 5% of base speed.
Full Wave Rectification.
Motor HP Range: 1/30 to 1/6 HP.
Current/Torque Limit: Built-in, adjustable.
IR Compensation: Built-in, adjustable.
Maximum/Minimum Speed Limiter: Adjustable.
Transient and Surge Protection: Built-in.
Line Voltage Compensation: Built-in.
Controller and Motor Protection: Fused.
Forward/Brake/Reverse Switch (Dynamic Braking).
Power-On Indicator Light, On/Off Switch.
NEMA 1 Enclosure.

No. 6X165. Dayton 1/30 to 1/6 HP DC Motor Speed Controller. Retail \$125.85.
Each **\$83.90**

Quantity Motor Prices for OEM Production — Available from Grainger

Quantity prices are available to original equipment manufacturers from Grainger on most of the 1,297 electric motor types listed in this MotorBook. Most standard

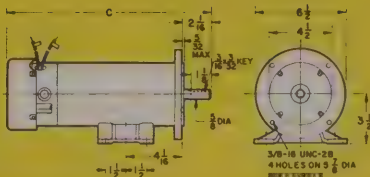
motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

1725 Base RPM, 90VDC Armature, Totally Enclosed, Fan-Cooled



\$83.94

\$297.46



1/4 to 1 HP, 1725 base RPM. Totally enclosed, fan-cooled construction. Continuous duty. Class F insulation. Ball bearings. NEMA 56C mounting face and NEMA 56 removable rigid base. 12" leads. Dayton brand.

HP	Base RPM	Armature Volts DC	Overall Length (C)	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.	Complete with No. 2M171 Controller
1/4	1725	90	10 ¹⁵ / ₁₆ "	3.0	2M167	\$126.98	\$83.94	17	7M001 \$297.46
1/2	1725	90	12 ¹⁵ / ₁₆ "	5.5	2M168	146.32	96.62	25	7M002 310.14
3/4	1725	90	14 ¹⁵ / ₁₆ "	8.2	2M169	189.00	124.69	31	7M003 338.21
1	1725	90	16 ¹⁵ / ₁₆ "	10.9	2M170	231.11	152.25	38	7M004 365.77

Input: 115VAC, 60/50 Hz; Output: 0-90 VDC Armature, 100 VDC Field

Simple, reliable, and compact; measures only 12" high, 5" wide, 4" deep. When used with motor types above, delivers constant torque through a 100:1 speed range. Black finish. Dayton brand. Shpg. wt. 8 lbs.



\$213.52



No. 2M171. Dayton SCR 1/8 to 1 HP DC Motor Adjustable Speed Controller. Retail \$320.28. Each.....\$213.52

1/2 HP
SPLIT PHASE
1800 RPM
115 VOLTS

40 1/2" FRAME
SAFETY GUARD
REVERSING
SWITCH
10' X 1/2" HOSE
CONNECTIONS

5000 TO 10000
1/2" HOSE
1/4" HOSE

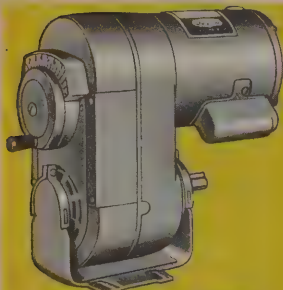
5K283

features clearly, for easy reference by dealer and user. Providing complete information on the label simplifies motor selection, helps assure customer satisfaction.

1/2 HP ADJUSTABLE-SPEED DRIVE UNIT

705 to 4230 RPM, Encased Belt Drive. 1/2 HP Capacitor Motor, 115/230V, 60 Hz

**Comes Fully Assembled. Inherently Aligned
Saves Installation Cost. No Lubrication Required**



Speed RPM	Cont. Duty HP	Full-Load Torque In/Lbs
705	1/5	18.3
1140	1/3	18.3
1725	1/2	18.3
3000	1/2	10.5
4230	1/2	7.5

Dayton

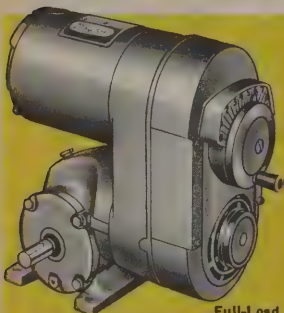
\$163.48

Adjustable-speed encased belt-driven unit designed for use on conveyors, shop equipment, machine drives, mixers and similar applications. Constant torque from 705 to 1725 RPM and constant 1/2 HP from 1725 to 4230 RPM (see table at left). Speed controlled by a convenient 14-turn handwheel which gives stepless speeds through use of adjustable-pitch pulleys and deep-cog belt. Easy-to-read dial indicator with reliable, repeatable speed setting capability. Speed adjustable only while running. Built-in automatic anti-creep device that holds speed setting. Lifetime alignment. Relubrication eliminated through the use of sealed ball bearings and a unique mechanical design which permits discs to slide on the shaft with no metal-to-metal contact. Die-cast aluminum construction provides strength, compactness and light weight. Adjustable mounting with a 180° swing cradle base permits drive to be tilted at any angle. 1/2 HP capacitor-start input motor, 1725 RPM, 115/230V, 60 Hz. 40°C. ambient, continuous duty. Open, dripproof construction. NEMA 56 frame mounting, 5/8" dia. x 1 1/8" long, keyed shaft. Rotation easily reversed by electrical reconnection; use reversing switch No. 4X814. 15 1/2" L x 12 1/4" H x 6 5/8" W overall. Base to shaft center, 3 1/2". Mounting holes, 4/8" RA x 3". Gray finish. Shpg. wt. 35 lbs. No. 5K994. Dayton 1/2 HP 115/230V Adjustable Speed Drive. Retail \$334.00. Each.....\$163.48

1/2 HP ADJUSTABLE SPEED GEARMOTOR

18 to 108 RPM. 185 to 215 In/Lbs Full-Load Torque

1/2 HP Capacitor-Start Input Motor, 115/230V, 60 Hz
Shaft Field-Interchangeable for Right or Left Hand Output



Speed, RPM	Cont. Duty HP	Full-Load Torque, In/Lbs.
108	1/2	185
100	1/2	200
95 to 18	1/2 to 1/8	215

Dayton

\$249.40

Adjustable-speed drive with right-angle gear case incorporates the features of the above No. 5K994 and also includes an integrally mounted, right-angle gear drive for low speeds and high-torque applications. Hardened steel worm gear with new LMS (lead magnesium silicon) bronze-forged worm wheel provides superior bearing qualities that extends life and improves performance. Tapered roller bearings at output shaft are used for greater overhung load capacity. Dual seals in tandem at both input and output shafts provide four sealing surfaces at each shaft for maximum dependability. Can be mounted in any of 4 positions—horizontal, vertical, or at 90° angles, by interchanging breather plug location. 1/2 HP capacitor-start input motor, 1725 RPM, 115/230V, 60 Hz. 40°C. ambient, continuous duty. Open, dripproof construction. 3/4" dia. x 1 3/8" long, keyed shaft. Shaft rotation easily reversed by electrical reconnection, use reversing switch No. 4X814. Overall dimensions, 15 1/2" L x 13 1/4" H x 7 1/16" W. Base to shaft center, 2 1/2". Mounting holes, 4/8" x 4/8". Gray finish. Shpg. wt. 41 lbs. No. 6K119. Dayton 1/2 HP Adjustable Speed Gearmotor. Retail \$494.00. Each.....\$249.40

1/2 HP, 3-PHASE ADJUSTABLE SPEED GEARMOTORS

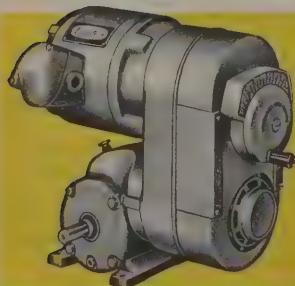
Constant Torque. Totally Enclosed, Non-Ventilated. 200/230/460V

Dayton

\$290.50

Adjustable speed drives with right angle gear case incorporate the features listed above for both No. 5K994 and No. 6K119. Totally enclosed non-ventilated input motor, for application in dusty or oily atmospheres. 1/2 HP, 3-phase input motor, 1725 RPM, 200/230/460V, 60 Hz; also operable on 50 Hz, 380V input at 5/6 of rated 60 Hz HP and RPM. 40°C max. ambient, 1.0 service factor, continuous duty. Large conduit box. 3/4" dia. x 1 3/8" long keyed shaft. Rotation easily reversed by electrical reconnection; use No. 2X441 reversing switch. Overall: 14 1/2" L x 13 1/4" H x 9 1/4" W. Base to shaft center, 2 1/2". Mounting holes, 4/8" x 4/8". Gray finish. Dayton.

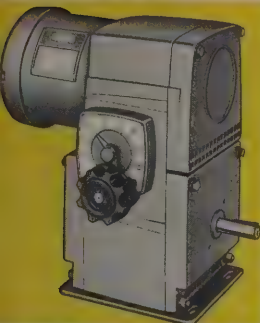
Speed RPM	Constant Full-Load Torque, In/Lbs	Stock No.	Retail	Each	Shpg. Wt.
12 to 72	265	3N297	\$596.00	\$305.77	45
18 to 108	204	3N259	566.00	290.50	44



1 HP ADJUSTABLE SPEED DRIVE UNIT

428 to 4275 RPM, Encased Belt Drive, 1 HP 3-Phase Motor, 200/230/460V, 60 Hz

**Comes Fully Assembled. Inherently Aligned
Saves Installation Cost. No Lubrication Required**



Dayton

\$411.84

Adjustable speed encased belt-drive unit designed for use on conveyors, shop equipment, machine drives, mixers and similar applications where adjustable speed is desired. Provides constant torque from 428 to 1725 RPM and constant 1 HP from 1725 to 4275 RPM; see table below.

Speed is controlled by a convenient 14-turn handwheel which gives stepless speeds through use of adjustable-pitch pulleys and deep-cog belt. Easy-to-read dial indicator, with reliable, repeatable speed setting capability. Speed adjustable only while running. Built-in automatic anti-creep device holds speed setting. Lifetime alignment. Relubrication eliminated through use of sealed ball bearings and a unique mechanical design which permits discs to slide on the shaft with no metal-to-metal contact. Die cast aluminum construction provides strength, compactness and light weight.

1 HP, 3-phase input motor, 1725 RPM, 200/230/460V, 60 Hz; also operable on 50 Hz, 380V at 5/6 of rated 60 Hz HP and RPM. Class B insulation, 40°C max. ambient, 1.0 service factor, continuous duty. Totally enclosed, fan-cooled construction.

NEMA 145T frame base mounting dimensions (listed on p. 16). 3/4" dia. x 2 1/8" long shaft with key. Shaft rotation easily reversed by electrical reconnection; use reversing switch No. 2X441. Overall dimensions 16 1/2" L, 15 1/8" H, 12 1/8" H. Base to shaft center, 4 1/8". Mounting holes 6 1/8" RA x 5". Gray finish. Dayton brand. Shpg. wt. 64 lbs.

No. 3N295. Retail \$858.00. Each.....**\$411.84**

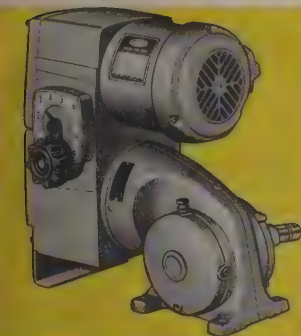
Other HP, Speed Ratios and Motor Enclosures on Special Order

Speed RPM	Continuous Duty HP	Full-Load Torque, In/Lbs
428	1/4	36.5
860	1/2	36.5
1140	5/8	36.5
1725	1	36.5
3450	1	18.3
4275	1	14.7

1 HP, 3-PHASE ADJUSTABLE SPEED GEARMOTORS

10.9 to 109 and 20.3 to 203 RPM Models

Totally Enclosed, Fan-Cooled, 200/230/460V Input



Dayton

\$508.80

Adjustable speed drive with right angle gear case incorporates the features listed above for No. 3N295. Input motor is of totally enclosed, fan-cooled construction, well suited for application in atmospheres which are dusty or oily.

1 HP, 3-phase input motor, 1725 RPM, 200/230/460V, 60 Hz; also operable on 50 Hz, 380V input at 5/6 of rated 60 Hz HP and RPM. 40°C max. ambient, 1.0 service factor, continuous duty. Large conduit box provided for easy electrical connection. 1" dia. x 1 7/8" long keyed shaft. Shaft rotation easily reversed by electrical reconnection; use No. 2X441 reversing switch.

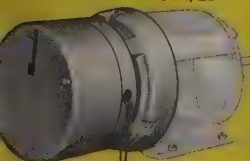
Overall dimensions 15 1/8" L x 16 1/8" H x 11 1/8" W. Base to shaft center, 3 1/4". Mounting holes, 6" RA x 5". Gray finish.

RPM	Constant Full-Load Torque, In/Lbs	Stock No.	Retail	Each	Shpg. Wt.
10.9 to 109	337	3Z499	\$1060.00	\$508.80	74
20.3 to 203	262	3N296	1060.00	508.80	79

Dayton

\$77.65

3 Ft/Lb



3 & 6 FT/LB MODULAR BRAKE KITS

Fits Dayton Motor and Gearmotor Models Listed Below

Dayton magnetic disc brakes, designed to mount on 26 totally enclosed, fan-cooled right angle gearmotors and horizontal motors listed below. Used on applications that require rapid stopping and holding action—conveyors, door openers, etc.

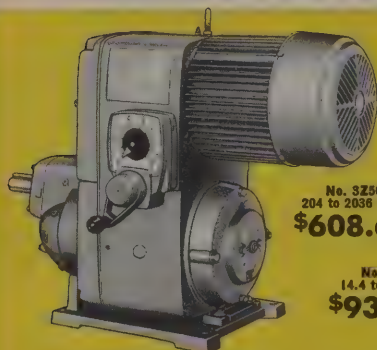
Brakes mount directly on 230/460V, 60/50 Hz, three phase motors and gearmotors listed, using conversion parts contained in kit. Weatherproof construction. Brake engages and holds load under power-off condition, automatically releases when power is applied. Load can be manually released when power is off by switching release lever. 13" long leads. Overall length 4 1/8", diameter 6 5/8". Gray finish. Dayton brand.

Torque /Lbs.	Fits these Dayton Motor and Gearmotor Models:									Stock No.	Retail	Each	Shpg. Wt.
3	3N033	3N079	3N080	3N169	3N170	3N171	3N172	3N173	3N174	3M360	\$116.48	\$77.65	8
	3N175	3N176	3N295	3N296	3N298	2Z872	2Z873	2Z874	3Z499				
6	3N034	3N035	3N074	3N299	3N300	3N301	2Z875	2Z876		2Z871	127.95	85.30	8

SEE WARRANTY INFORMATION ON PAGE 684

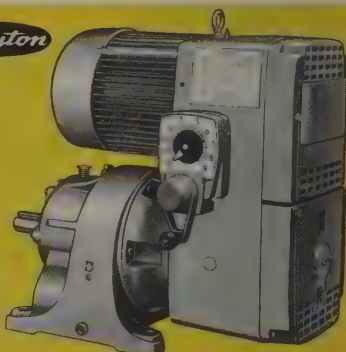
3 HP, 3-PHASE ADJUSTABLE SPEED GEARMOTORS

14.4 to 144 RPM and 204 to 2036 RPM, 230/460V, 60 Hz. Totally Enclosed, Fan-Cooled



No. 3Z506
204 to 2036 RPM
\$608.64

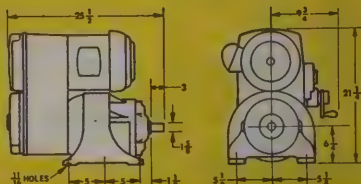
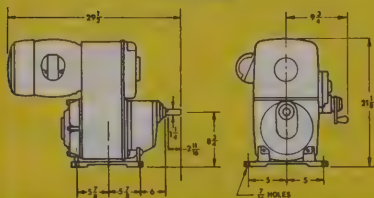
Dayton



No. 3Z507
14.4 to 144 RPM
\$933.12

No. 3Z506

No. 3Z507



Dayton mechanical adjustable speed in-line gearmotors designed for applications such as conveyors, pumps, textile machinery and other general duty industrial jobs.

Speed is adjusted by a convenient 8-turn handwheel which gives stepless speed change through adjustable-pitch pulleys and deep cog belt. Easy-to-read dial indicator; reliable, repeatable speed setting capability. Speed adjustable only when unit is running. Built-in, automatic anti-creep device holds speed setting. Lifetime alignment. Need for relubrication eliminated through use of sealed ball bearings

and mechanical design which permits discs to slide on shaft with no metal-to-metal contact.

3 HP, 3-phase input motor, 1725 RPM, 230/460V, 60 Hz. Also operable on 190/380V, 50 Hz at 5/6 of rated 60 Hz HP and RPM. Class B insulation, 40°C maximum ambient, 1.0 service factor continuous duty. Totally enclosed, fan cooled construction. Rotation easily reversed by electrical reconnection; use No. 2X442 reversing switch.

Shipped less oil in gearcase; instructions on gearcase specify proper lubricant.

GEARCASE CONSTRUCTION FEATURES

Gearcase: Cast iron.

Pinions and Gears: All steel and hardened. Helical design for smooth, quiet operation.

Seals: "Labyrinth" sealing design used on input and output shafts.

Bearings: No. 3Z506 has shielded ball bearings on input shaft, open ball bearings on gear assemblies and output shaft.

No. 3Z507 has shielded ball bearings on input shaft, tapered roller bearings on gear assemblies and output shaft.

Lubricant: Turbine type oil (shipped less oil).
Mounting Position: Horizontal only (mounting feet on floor). No ceiling or side wall mount.

FULL-LOAD SPEED/HP/TORQUE

No. 3Z506			No. 3Z507		
Speed RPM	Continuous Duty HP	Full-Load Torque, In/Lbs	Speed RPM	Continuous Duty HP	Full-Load Torque, In/Lbs
2036	3	93	144	3	1323
790	3	239	55	3	3402
675	2.6	232	45	2.6	3308
450	1.6	237	30	1.6	3374
204	0.7	216	14.4	0.7	3087

3 HP GEARMOTOR PRICES

Speed RPM	Stock No.	Retail	Each	Ship Wt.
14.4 to 144	3Z507	\$1944.00	\$933.12	29
204 to 2036	3Z506	1268.00	608.64	25

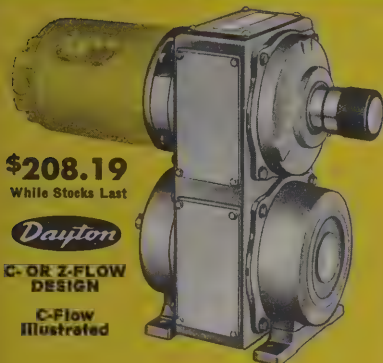
PREPAID FREIGHT on all shipments of 300 lbs. and over, unless otherwise stated
See Sales Policy in Index for full details

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



1/2 TO 2 HP ADJUSTABLE SPEED DRIVES

500 to 4000 RPM. NEMA 56C to 145TC Input & Output Faces. C- or Z-Flow Designs



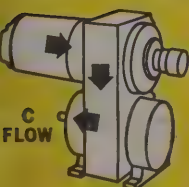
\$208.19
While Stocks Last

Dayton

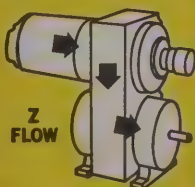
**C- OR Z-FLOW
DESIGN**

**C-Flow
Illustrated**

POWER FLOW



No. 22822



No. 6K217

TORQUE		TORQUE MULTIPLIER	
1725 RPM Input HP	500-1750 RPM Torque	RPM	Multiplier
1/2	16.2 In/Lbs	500-1750	1.0
3/4	24.3 In/Lbs	2000	0.88
1	32.4 In/Lbs	3000	0.53
1 1/2	48.6 In/Lbs	4000	0.44
2	64.8 In/Lbs		

See Index under Motors, Flange Mount, Brake, Magnetic Disc and Reducers, Speed for other drive components

Encased adjustable speed drives specifically designed for use where precise speed adjustment is required; conveyors, mixers, shop equipment, machine drives, etc.

Both designs accommodate all NEMA 56C to 145TC face mount motors and brakes on the input flange, 1725 RPM (only), single or 3-phase, open, totally enclosed or explosion proof construction.

The output flange accommodates right angle and in-line gear reducers and brakes with NEMA 56C to 145TC mounting face.

5/8" dia. x 1 7/8" long, keyed output shaft. Overall dimensions, 11 1/2" L x 16 1/8" x 8 3/4" W. Base to output shaft center 4 1/4", to input shaft center 11 3/4". Mounting holes 6" RA x 6 1/4", 7/16" dia. Gray finish. Shpg. wt. 66 lbs.

DRIVE PERFORMANCE FEATURES

- **Speed Range:** 8:1
- **Constant Torque:** 500 to 1750 RPM. From 1800 to 4000 RPM the torque is inversely proportional to speed; see Torque Multiplier table at left, below.
- **Speed Selection:** accomplished with a 10 turn manual micrometer speed control.
- **Reproducible Speed Settings:** within 5 RPM accuracy under similar load conditions.
- **Two Sheave Drive:** positive belt clamping at input sheave during acceleration, minimizes speed surges and allows greater overdrive and speed reduction ratios.

CONSTRUCTION FEATURES

- **Cast Iron Sheaves:** high density, dynamically balanced in operating position.
- **Deep Cog Belts:** pressure molded.
- **Prelubricated Ball Bearings:** wide cartridge type.
- **Cast Iron Endbells:** high density type for rigid bearing alignment.
- **Symmetrical Frame:** constructed with light weight aluminum.
- **Inspection Covers:** stainless steel, easily removed.
- **Mounting Base:** cast iron, bolted on;

ADJUSTABLE SPEED DRIVE PRICES

Type	Stock No.	Retail	While Stocks Last Each
Z Flow	6K217	\$416.37	\$208.19
C Flow	22822	416.37	208.19

IN-LINE DAYTON SPEED REDUCERS—1/3 & 1/2 HP

30, 44, 60 and 91 RPM Output Models. General Purpose Type. Reversible Rotation

built for direct drive with 1/3 or 1/2 HP NEMA 56C face, 1725 RPM (max.) motor,

No. 22070
Less Motor

\$77.01



not included. Cast iron housing, heavy duty steel spur gears. Ball bearing supported 5/8" ID female input shaft sleeve. 2" L x 1" dia. output shaft with 1/4 x 1/8" keyway has Timken tapered roller bearing. Lip type seals on both shafts. For horizontal floor operation only. Shipped filled with lubricant, ready for operation. Gearhead dimensions, less motor: 11 1/2" L, 7 1/4" W, 6 1/16" H. Gray finish. Dayton brand. Shpg. wt. 29 lbs. For motors, see Index under Motors, Special Types, Flange Mount.

		1/3 HP	1/2 HP	Less Motor			
Output RPM*	Ratio	Torque In/Lbs	Torque In/Lbs	Stock No.	Retail	Each	Lots 3 Asst'd.
30	57.5:1	638	955	22068	\$134.06	\$89.37	\$82.99
44	39:1	435	651	22083	132.33	82.22	81.51
60	29:1	318	478	22069	131.28	87.52	81.27
91	19:1	217	326	22070	124.41	82.94	77.01

(*) At 1725 RPM (max.) motor input speed.

SEE WARRANTY INFORMATION ON PAGE 684

INTEGRAL HP MANUAL AND MAGNETIC STARTERS

For 1 to 50 HP, Single and 3-Phase AC Motors



**MAGNETIC
STARTER**



**MANUAL
STARTER**

No. 5X145 Dayton across-the-line AC starters provide positive overload protection for single and 3-phase motors up to 50 HP. Regardless of size, each starter is designed the same to achieve maximum familiarity and simplicity for resellers and maintenance crews. Features include—clearly identified terminals; wires enter top, leave bottom for straight-thru uncomplicated wiring. Completely factory pre-wired; most internal connections are mechanical—eliminating possible error. Snap-off contact cover exposes silver cadmium oxide contacts for inspection. Contact replacement easy...movable contacts held by spring loaded clip, pull straight out; stationary contacts held by one screw. Fast, fail-safe operating coil replacement; only two basic parts need to be removed. Overload relay simply plugs in and is secured by one screw; fits only one way. Single phase have one overload relay; three phase have three overload relays. Gray, NEMA 1 general purpose enclosure, ample knockouts and wiring space. All enclosures can be padlocked. UL and CSA listed.

\$25.68

Let's 3

MANUAL, 1 to 10 HP

Positive action manual starters provide quick circuit interruption in the event of motor overload. Thermal overload relays are latched directly to the built-in start-stop button, and are manually resettable after motor returns to normal operating temperature. Start-stop buttons are recessed to prevent accidental actuating. Heater element and control circuits are factory-wired, terminals are clearly marked. Enclosure covers can be padlocked.

MAGNETIC STARTERS FOR 1 to 50 HP

Provide positive overload protection plus low-voltage release protection. Dual-voltage operating coils, factory-connected for 208-230V. Colored leads and clearly marked terminal positions assure proper connection. May be used for local control with optional Start-Stop or Hand-Off-Auto modification kits (Nos. 5X158, 5X159, on nearby pg.), using knockouts provided, or remote control with optional Start-Stop station (No. 5X160, on nearby pg.). Kits and dual voltage operating coils permit maximum adaptability with a minimum of components. When inspecting or replacing contacts, a safety interlock prevents contacts from closing until contact cover is replaced. Plug-in thermal overload relays are trip-free, bi-metallic type, may be converted from manual to automatic reset. Relay has external adjusting knob for $\pm 15\%$ of current value.

DAYTON MANUAL MOTOR STARTERS — OVERLOAD PROTECTED

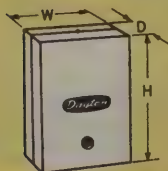
NEMA Size Poles			Operating Coil Voltages/ (60 Hz, 1 Ph.)	NEMA Contact Rating (60 Hz)				Overload Heater Elements Required (Not Included)	STARTER PRICE Less Heater Elements See Table On Next Page				Shpg. Wt.
				Maximum HP Single Phase		Maximum HP Polyphase			Max. Amps. Cont.				
				115V	208-230V	208-230V	440-460V, 600V						
M-O	2	Manual	1	2	—	—	18	1	5X145	\$37.00	\$27.01	\$25.68	5
M-1	2	Manual	2	3	—	—	27	1	5X146	47.00	34.31	32.62	5
M-1P	2	Manual	3	5	—	—	36	1	5X147	69.00	50.37	47.89	6
M-O	3	Manual	1	2	3	5	18	3	5X148	44.00	32.12	30.54	5
M-1	3	Manual	2	3	7½	10	27	3	5X149	54.00	39.42	37.48	5

DAYTON MAGNETIC MOTOR STARTERS — OVERLOAD PROTECTED

O	2	115/208-230V	1	2	—	—	18	1	5X150	\$65.00	\$47.45	\$45.11	7
1	2	115/208-230V	2	3	—	—	27	1	5X151	75.00	54.75	52.05	7
1½	2	115/208/230V	3	5	—	—	36	1	5X152	97.00	70.81	67.32	7
00	3	208-230/440-460V	—	1	1½	2	9	3	5X153	58.00	42.34	40.25	8
0	3	208-230/440-460V	—	2	3	5	18	3	5X154	72.00	52.56	49.97	8
1	3	208-230/440-460V	—	3	7½	10	27	3	5X155	82.00	59.86	56.91	8
1½	3	208-230/440-460V	—	5	10	15	36	3	5X245	112.00	91.76	77.73	8
2	3	208-230/440-460V	—	7½	15	25	45	3	5X156	162.00	118.26	112.43	12
3	3	208-230/440-460V	—	15	30	50	90	3	5X157	270.00	197.10	187.38	33

(f) Each magnetic starter is equipped with a dual wound operating coil. Simple interchange of leads quickly changes voltage (factory connected for 208-230V). Optional operating coils are listed on nearby page. Each magnetic starter has a separate set of contacts (holding contact) for use in the operating coil control circuit (allows maintained contact operation from momentary contact control stations or control devices).

DIMENSIONS FOR MANUAL and MAGNETIC MOTOR STARTERS ABOVE



Stock No.	NEMA Size	(H) Height	(W) Width	(D) Depth
5X145, 5X146	M-0, M-1	8½"	5½"	3½"
5X147, 5X148	M-1P, M-0	8½"	5½"	3½"
5X149	M-1	8½"	5½"	3½"
5X150, 5X151	0, 1	9½"	6½"	4½"
5X152, 5X153	1½, 00	9½"	6½"	4½"
5X154, 5X155	0, 1	9½"	6½"	4½"
5X245, 5X156	1½, 2	11½"	7½"	4½"
5X157	3	19"	10½"	6½"

HEATER ELEMENTS FOR INTEGRAL HP AC STARTERS

For Nos. 5X145 to 5X157 and 5X245 Dayton Manual and Magnetic Starters

—HOW TO SELECT HEATER ELEMENTS—

Refer to motor nameplate for Full-Load Ampere Rating at voltage used. Also note Service Factor and Rise or Ambient ratings on nameplate.

For motors with 40°C rise and/or service factor more than 1.0 order heater with amp range within which motor's full-load amp rating falls.

For motors with 50°C, 55°C, 70°C, or 75°C rise and/or 1.0 service factor, select heater one size smaller (line above, in table) than for 40°C rise motor.

For single-phase motors, select from 1 O/L column; for 3-phase motors, use 3 O/L column. Shpg. wt. 2 oz.

Stock No.	FOR MANUAL STARTERS NOS. 5X145 THRU 5X149 NEMA Sizes M-0, M1, and M-1P, 2 and 3 Pole		FOR MAGNETIC STARTERS NOS. 5X150 THRU 5X155, 5X245 NEMA Sizes 00, 0, 1, 1½ and 1½; 2 and 3 Pole		ORDER HEATER ELEMENTS BY Stock No. Retail \$3.00. Each \$2.19; lots 3 assorted.....\$2.08			
	Motor Full-Load (Nameplate) Current-Ampere		Motor Full-Load (Nameplate) Current-Ampere		NEMA Size	Stock No.	Each	Lots 3
	1 O/L Range	3 O/L Range	1 O/L Range	3 O/L Range				
5X181	0.76-0.82	0.55-0.62	0.66-0.74	0.60-0.67				
5X182	0.82-0.93	0.62-0.70	0.75-0.82	0.68-0.73				
5X183	0.93-0.99	0.70-0.79	0.83-0.92	0.74-0.82				
5X184	0.99-1.08	0.79-0.88	0.93-1.01	0.83-0.90				
5X185	1.09-1.23	0.88-1.00	1.02-1.09	0.91-0.97				
5X186	1.24-1.41	—	1.10-1.21	0.98-1.06				
5X187	1.42-1.55	1.00-1.13	1.22-1.33	1.07-1.18				
5X188	1.56-1.70	1.14-1.28	1.34-1.45	1.19-1.29				
5X189	1.71-1.83	1.29-1.47	1.46-1.56	1.30-1.39				
5X190	1.84-2.02	—	1.57-1.72	1.40-1.54				
5X191	2.03-2.23	1.48-1.65	1.73-1.95	1.55-1.74				
5X192	—	1.66-1.90	1.96-2.15	1.75-1.92				
5X193	2.24-2.47	—	2.16-2.36	1.93-2.10				
5X194	2.48-2.79	1.91-2.09	2.37-2.60	2.11-2.32				
5X232	—	2.10-2.25	—	—				
5X195	2.80-3.07	2.26-2.45	2.61-2.93	2.33-2.61				
5X196	3.08-3.44	2.46-2.76	2.94-3.26	2.62-2.90				
5X197	—	—	3.27-3.77	2.91-3.31				
5X233	3.45-3.84	2.77-3.05	—	—				
5X198	3.85-4.31	3.06-3.35	3.78-4.22	3.32-3.71				
5X199	4.32-4.79	3.36-3.79	4.23-4.71	3.72-4.11				
5X200	4.80-5.55	3.80-4.31	4.72-4.97	4.12-4.39				
5X201	5.56-6.11	4.32-4.90	4.98-5.45	4.40-4.79				
5X202	6.12-6.79	4.91-5.19	5.46-5.96	4.80-5.27				
5X203	6.80-7.51	5.20-5.67	5.97-6.76	5.28-5.99				
5X204	7.52-8.56	5.68-6.07	6.77-7.64	6.00-6.71				
5X205	—	6.08-6.63	7.65-8.55	6.72-7.47				
5X206	8.57-9.33	6.64-7.55	8.56-9.55	7.48-8.39				
5X236	9.34-9.99	—	—	—				
5X207	10.0-11.5	7.56-8.49	9.56-10.6	8.40-9.55				
5X237	—	8.50-9.04	—	—				
5X208	11.6-13.1	9.05-9.99	10.7-11.8	9.56-10.4				
5X209	—	—	11.9-12.5	10.5-11.1				
5X210	13.2-14.1	10.0-11.5	12.6-13.9	11.2-11.7				
5X211	14.2-16.3	11.6-12.3	14.0-14.9	11.8-12.9				
5X212	—	12.4-14.4	15.0-16.3	13.0-14.0				
5X213	*16.4-*18.7	—	16.4-18.4	14.1-15.9				
5X214	—	—	18.5-19.7	16.0-17.1				
5X238	18.8-20.3	14.5-16.0	—	—				
5X215	—	—	19.8-20.8	17.2-18.5				
5X239	20.4-22.3	16.1-17.4	20.9-24.8	18.6-20.6				
5X216	—	—	—	—				
5X240	22.4-25.1	*17.5-*19.9	—	—				
5X217	—	—	24.9-27.7	—				
5X241	25.2-28.3	20.0-22.2	—	—				
5X218	—	—	*27.8-*30.0	20.7-22.0				
5X242	28.4-30.6	22.3-24.5	—	—				
5X219	—	—	30.1-32.8	22.1-24.4				
5X243	30.7-33.0	—	—	—				
5X220	—	—	*32.9-*36.0	*24.5-*28.5				
5X244	33.1-35.9	—	36.1-39.0	28.6-32.2				
5X221	—	—	—	—				
5X222	—	—	—	*32.3-*35.0				
5X223	—	—	—	—				
5X224	—	—	—	—				
5X225	—	—	—	—				
5X226	—	—	—	—				
5X227	—	—	—	—				
5X228	—	—	—	—				

CONTACT RENEWAL KITS

For Manual, Magnetic Starters
Nos. 5X145 to 5X157 and 5X245

Complete set (3-poles) of silver cadmium oxide contacts. 10 oz.

NEMA Size	Stock No.	Each	Lots 3
M-0	5X229	\$9.84	\$9.00
M1, MIP	5X230	11.85	11.25
00	5X161	7.11	6.75
0	5X162	9.84	9.00
1, 1½, 1½	5X163	11.85	11.25
2	5X164	23.70	22.50
2	5X165	42.66	40.50

FOR MAGNETIC STARTER NO. 5X156 NEMA Size 2, 3 Pole	FOR MAGNETIC STARTER NO. 5X157 NEMA Size 3, 3 Pole
Motor Full-Load (Nameplate) Current-Amps 3 O/L Range	Motor Full-Load (Nameplate) Current-Amps 3 O/L Range
—	—
5.76-6.49	—
6.50-7.06	—
7.07-7.99	—
8.00-9.07	—
9.08-9.99	—
10.0-11.1	—
11.2-12.1	—
12.2-13.1	—
13.2-13.7	—
13.8-14.9	—
15.0-16.5	18.4-20.7
16.6-17.2	20.8-23.1
17.3-19.9	23.2-25.5
20.0-22.6	25.6-28.7
22.7-25.3	28.8-31.1
25.4-27.2	31.2-35.9
27.3-30.3	36.0-38.3
30.4-33.8	38.1-43.9
33.9-36.8	44.0-49.0
36.9-42.1	49.1-56.0
42.2-47.0	56.1-60.7
—	60.8-67.2
—	67.3-74.3
—	74.4-81.5
—	81.6-89.9
—	90.0-100.0

(*) Maximum heater for 5X145 & 5X148, NEMA size M-0

(†) Maximum heater for 5X146, 5X147 & 5X149, NEMA size M-1 & M-1P

(*) Maximum heater for 5X245, NEMA size 1½

(†) Maximum heater for 5X153, NEMA size 00.

(*) Maximum heater for 5X150 & 5X154, NEMA size 0

(*) Maximum heater for 5X151 & 5X155, NEMA size 1

1,297 ELECTRIC MOTOR TYPES Available at Grainger's for Immediate Delivery

SEE WARRANTY INFORMATION ON PAGE 684

111

REMOTE CONTROL STATION FOR MAGNETIC STARTERS



\$9.00
Lots 3

Dayton

Start-Stop Type. For 3-Wire Circuits up to 600V. Dayton Brand

Standard-duty pushbutton control for remote control of magnetic starters and other three-wire circuits up to 600V. Surface-mounted NEMA 1 general-purpose enclosure has ample wiring room, with knockouts top and bottom. Can be mounted vertically or horizontally. Green Start button is single-pole, normally-open, momentary contact. Red Stop button is single-pole, normally-closed, momentary contact. Double-break, silver plated contacts for long, trouble-free service. Gray finish. UL listed. Shpg. wt. 1 lb.

No. 5X160. Dayton Remote Control for Magnetic Starters. Retail \$12.00. Each \$9.48; lots 3... \$9.00

MAGNETIC STARTER MODIFICATION KITS

For Dayton Magnetic Starters Nos. 5X150 to 5X157 and 5X245

Converts applicable Dayton magnetic starters to local control units. Kits mount in existing enclosure cover knockouts. No wiring required. Eliminates duplicate control inventory. No. 5X158 provides Start-Stop button in cover. No. 5X159 is a 3-position selector switch that provides Hand position for normal operation, Automatic for installation of a secondary control such as relay, limit switch, timer, etc., and Off. Instructions included. UL listed.



Start-Stop

**EITHER
MODEL**

\$12.00
Lots 3



Hand-Off-Auto

Dayton

Modification Feature	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Start-Stop	5X158	\$16.00	\$12.64	\$12.00	12 oz.
Hand-Off-Auto	5X159	16.00	12.64	12.00	12 oz.

OVERLOAD RELAY KITS FOR DAYTON MOTOR STARTERS

For Manual and Magnetic Starters No. 5X145 to 5X157 and 5X245

For use as replacement. Plug-in design eliminates wiring errors, fits only one way to insure proper connection. Overload relay for manual starter is manual resettable type. Relay for magnetic starter can be converted to automatic reset. UL listed.



No. 5X166

\$3.75
Lots 3

Dayton

Type Starter	NEMA Size	Stock No.	Retail	Each*	Lots 3*	Wt.
Manual	M-O, M-1, MIP	5X166	\$5.00	\$3.95	\$3.75	6 oz.
Magnetic	00, 0, 1, 1½	5X167	9.00	7.11	6.75	6 oz.
Magnetic	1½	5X168	9.00	7.11	6.75	9 oz.
Magnetic	2	5X169	9.00	7.11	6.75	9 oz.
Magnetic	3	5X170	18.00	14.22	13.50	1½

(*) Shipped prepaid from Chicago. Order from nearest Grainger address for fastest shipping service.

REPLACEMENT CONTACTS AND OPERATING COILS

CONTACT RENEWAL KITS

For Manual and Magnetic Starters Nos. 5X145 to 5X157 and 5X245

Complete set (3-poles) of silver cadmium oxide movable and stationary contacts. Sizes to fit Dayton manual and magnetic starters Nos. 5X145 to 5X157 and 5X245. Easy to install, full instructions included. Dayton brand. Wt. 10 oz.



Type Starter	NEMA Size	Stock No.	Retail	Each	Lots 3
Manual	M-O	5X229	\$12.00	\$9.84	\$9.00
Manual	M1, MIP	5X230	15.00	11.85	11.25
Magnetic	00	5X161	9.00	7.11	6.75
Magnetic	0	5X162	12.00	9.84	9.00
Magnetic	1, 1½, 1¾	5X163	15.00	11.85	11.25
Magnetic	2	5X164	30.00	23.70	22.50
Magnetic	3	5X165	54.00	42.66	40.50

Motor Replacement Parts Available

A large stock of replacement parts for Dayton single phase motors is maintained in Chicago. Parts for other brand motors listed in Grainger MotorBook are available on special order.

Specify model number of unit, and give full description of part needed. Send orders to nearest Grainger address for fastest service.

REPLACEMENT OPERATING COILS

For Magnetic Starters 5X150 to 5X157, 5X245



Single and dual voltage 60 Hz operating coils are completely encapsulated in insulating compound. Install or remove easily. Simple interchange of leads quickly changes voltage on dual-voltage coils. UL listed. Dayton brand. Shpg. wt. 14 oz.

SINGLE-VOLTAGE OPERATING COILS

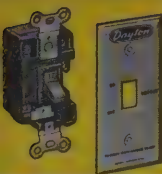
Coil Voltage 60 Hz	NEMA Size	Stock No.	Retail	Each	Lots 3
24; 1 Phase	00, 0, 1, 1½, 1¾	5X175	\$15.00	\$11.85	\$11.25
24; 1 Phase	2	5X176	18.00	14.22	13.50
24; 1 Phase	3	5X177	21.00	16.59	15.75
120; 1 Phase	00, 0, 1, 1½, 1¾	5X178	15.00	11.85	11.25
120; 1 Phase	2	5X179	18.00	14.22	13.50
120; 1 Phase	3	5X180	21.00	16.59	15.75
600; 3 Phase	00, 0, 1, 1½, 1¾	6X224	15.00	11.85	11.25
600; 3 Phase	2	6X225	18.00	14.22	13.50
600; 3 Phase	3	6X226	21.00	16.59	15.75

DUAL-VOLTAGE OPERATING COILS

115/208-230*	00, 0, 1, 1½, 1¾	5X171	20.00	15.80	\$15.00
208-230/440-460†	00, 0, 1, 1½, 1¾	5X172	20.00	15.80	15.00
208-230/440-460†	2	5X173	30.00	23.70	22.50
208-230/440-460†	3	5X174	40.00	31.60	30.00

(*) 1 Phase. (†) 3 Phase.

Dayton FRACTIONAL HP MANUAL MOTOR STARTERS



Single Pole
\$7.63
Lots 3

Overload Protected. 120/240 VAC or 115/230VDC. 1 & 2 Pole
Reliable, low-cost toggle-operated fractional horsepower starter for control and operation of single phase motors 1 HP and smaller. Manual reset type. Can be used on compressors, refrigeration systems, fans, blowers, pumps, etc. Fits in standard handy box, or in surface mounted enclosure, No. 5X271, listed below. Plug-in heater element has a captive locking screw—requires no wiring. Quick-make, quick-break mechanism. Handle indicates On, Off, or Trip positions. Wiring diagram on starter. Single pole starter handles 120/240VAC motors. 2 pole starter for 120/240VAC, or 115/230VDC motors. With nameplate and hardware. Heater elements sold separately. UL listed.

Poles	Maximum HP 120/240 VAC	115/230 VDC	Stock No.	Retail	—Less Heater Elements— Each	Lots 3	Shpg. Wt.
1	1	—	5X269	\$11.00	\$8.03	\$7.63	8 oz.
2	1	1	5X270	13.00	9.49	9.02	8 oz.

HEATER ELEMENTS FOR FRACTIONAL HP MANUAL STARTERS

To make proper selection, refer to nameplate on motor for full-load ampere rating on voltage used. Then select, from table below, the element for which ampere rating falls within minimum and maximum. Ampere ratings are for

40°C rise motors. For 50° and 55°C rise motors, select heater element one size smaller (on line above) than required for 40°C rise motors. For 208V, select element one size larger (on line below) than for 230V motor. Shpg. wt. 1 oz.

Amperes Min.	Max.	Stock No.	Retail	Each	Lots 3 Asst'd.	Amperes Min.	Max.	Stock No.	Retail	Each	Lots 3 Asst'd.
2.96	3.28	5X274	\$2.00	\$1.46	\$1.39	6.89	7.65	5X282	\$2.00	\$1.46	\$1.39
3.29	3.65	5X275	2.00	1.46	1.39	7.66	8.47	5X283	2.00	1.46	1.39
3.66	4.05	5X276	2.00	1.46	1.39	8.48	9.43	5X284	2.00	1.46	1.39
4.06	4.50	5X277	2.00	1.46	1.39	9.44	10.41	5X285	2.00	1.46	1.39
4.51	5.01	5X278	2.00	1.46	1.39	10.51	11.61	5X286	2.00	1.46	1.39
5.02	5.57	5X279	2.00	1.46	1.39	11.71	12.91	5X287	2.00	1.46	1.39
5.58	6.19	5X280	2.00	1.46	1.39	13.01	14.31	5X288	2.00	1.46	1.39
6.20	6.88	5X281	2.00	1.46	1.39	14.41	16.01	5X289	2.00	1.46	1.39

SURFACE ENCLOSURE

NEMA 1 surface mount enclosure for 1 or 2 pole starters. Two pc. box and cover. Baked in gray enamel finish. 4 1/2 H, 3 W, 2 1/2 D. Shpg. wt. 8 oz. No. 5X271. Retail \$2.00. Each \$1.46; lots 3 \$1.39

PILOT LIGHT KIT

Prewired light and red lens cover. For 1 or 2 pole starter. Special nameplate for easy mounting on handy or flush boxes. Shpg. wt. 1 oz. No. 5X272. Retail \$6.00. Each \$4.38; lots 3 \$4.16

PADLOCK KIT

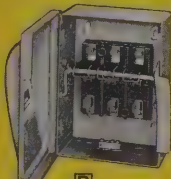
Heavy duty guard with nameplate for attaching padlock to starter. Toggle can be locked in On or Off position. For 1 or 2 pole starters. Wt. 1 oz. No. 5X273. Retail \$2.00. Each \$1.46; lots 3 \$1.39

Dayton 30, 60 & 100 AMP INDOOR SAFETY SWITCHES

General Purpose and Heavy Duty Types. 115, 240 and 480/600 VAC, Single and 3-Phase



A
Single Phase



B
3-Phase

General Purpose,
Single Phase

\$6.60

Dependable disconnects for electrical circuits, including starting and running protection for single or 3 phase motors. Built to NEMA standards. UL listed; also comply with NEC requirements. Solderless lugs with ample wiring space and knockouts for quick, easy installation. Feed-thru neutral on all general purpose switches; heavy duty models have field convertibility feature for utilizing energy-limiting J fuses. Single phase 30 amp unit has a rotary switch and solid neutral for motors up to 3/4 HP, 120 VAC. Three phase 30, 60 and 100 amp units utilize cartridge fuses for motors up to 50 HP, 600 VAC—and also feature double break contacts, individually enclosed for arc control and safety; plus a handle switch for positive control of contacts. Can be padlocked. Gray finish. Dayton brand.

Fig.	Amp Rating	Phase	Fuse Protection Type	No. Req'd.	HP Ratings, AC*					Overall			Stock No.	Retail	Each	Shp. Wt.
					Single Phase		Three Phase			H	W	D				
					115V	240V	240V	480V	600V							
GENERAL PURPOSE INDOOR SAFETY SWITCHES																
A	30	1	Plug	2	1/2(3/4)	—	—	—	—	6 1/2"	4 1/4"	3"	6X206	\$13.10	\$ 6.60	4
B	30	3	Cartridge	3	—	1 1/2(3)	3(7 1/2)	—	—	8 5/8"	7"	4 5/8"	4X455	29.00	14.41	4
B	60	3	Cartridge	3	—	3(10)	7 1/2(15)	—	—	12 3/8"	8 3/4"	5"	5X670	48.00	23.98	9
B	100	3	Cartridge	3	—	7 1/2(15)	15(30)	—	—	16 1/2"	8 3/2"	6 1/4"	5X671	83.00	41.35	14

HEAVY DUTY INDOOR SAFETY SWITCHES

B	30	3	Cartridge	3	—	—	—	5(15)	7 1/2(20)	12 3/8"	8"	5"	6X147	\$78.00	\$38.38	9
B	60	3	Cartridge	3	—	—	—	15(30)	15(50)	13 3/8"	8 3/8"	6 3/8"	6X148	93.00	45.73	12

* HP based on NEC single element standard fuse; ratings in parentheses are with dual-element (time delay) fuses

SEE WARRANTY INFORMATION ON PAGE 684

TELEMECANIQUE AC MAGNETIC MOTOR STARTERS

Complete Protection for 1/10 to 40 HP, Single Phase & 3-Phase AC Motors. Open Style, 600 Volts



Nos. 7X045-7X051

\$40.86

Let's



Shown: No. 7X057

The Telemecanique D-line of magnetic motor starters provides the most flexible, high performance motor controller system on the market today. The contactor contains 3 double-break, silver-cadmium-oxide power contacts and a normally open auxiliary contact. The thermal overload relay detects overload conditions, phase failure and current unbalance.

- **COMPACT SIZE** allows maximum utilization of panel space.
- **SIMPLIFIED INSTALLATION.** 12 and 25 amp units can be panel or track mounted; 40 and 63 amp models are panel mounted only.
- **EASY TO WIRE.** Straight-thru wiring. Clearly marked terminals with self-lifting wire clamps.
- **RELIABLE MOTOR PROTECTION.** Thermal overload relay senses phase failure, current unbalance, overload currents—and is adjustable to exact motor current. Manual reset. No separate heaters required.
- **AUXILIARY CONTACT BLOCKS.** Instantaneous and timed types, snap on to front of contactor.
- **INSTALLED OPERATING COIL** rated 120V, 60 Hz. Optional 24 to 600V coils, listed below, can be substituted by removing two screws.

Snap-on auxiliary contacts and timer attachments can be quickly added to the contactor without increasing panel space. Built of high quality materials for industrial and commercial use. Overload relays are easily attached to contactor. Standard coil voltage is 120 volts, 60 Hz. Select complete starter according to HP/voltage chart in table below. UL and CSA listed.

TELEMECANIQUE AC MAGNETIC MOTOR STARTERS—SELECTION DATA and PRICES

NOMINAL MOTOR HP RATING AT 60 Hz					Overload Adjustment Range, Full Load Amps*	Overall Dimensions L W H			COMPLETE STARTER Includes Overload Protector					
Single Phase 115V	230V	Three Phase 200-230V 480V 575V							Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
—	1/10	1/4, 1/8	1/2, 3/4	3/4, 1	1 to 1.5	2 5/8	1 3/4	2 7/8	LE1-D12306	7X045	\$62.00	\$45.26	\$40.86	1
—	1/8, 1/4	1/2	1	1 1/2	1.6 to 2.5	2 5/8	1 3/4	2 7/8	LE1-D12307	7X046	62.00	45.26	40.86	1
1/10, 1/8	1/4, 1/2	3/4, 1	1 1/2, 2	2, 3	2.5 to 4	2 5/8	1 3/4	2 7/8	LE1-D12308	7X047	62.00	45.26	40.86	1
1/8, 1/4	1/2, 3/4	1 1/2	2	3	4 to 6	2 5/8	1 3/4	2 7/8	LE1-D12310	7X048	62.00	45.26	40.86	1
1/4, 1/2	3/4	2	5	5	5.5 to 8	2 5/8	1 3/4	2 7/8	LE1-D12312	7X049	62.00	45.26	40.86	1
1/2	1	—	—	7 1/2	7 to 10	2 5/8	1 3/4	2 7/8	LE1-D12314	7X050	62.00	45.26	40.86	1
—	1 1/2, 2	3	5	7 1/2	10 to 13	2 5/8	1 3/4	2 7/8	LE1-D12316	7X051	62.00	45.26	40.86	1
3/4, 1	3	—	10	10, 15	13 to 18	3 1/8	2 1/4	3 1/2	LE1-D25321	7X052	76.00	55.48	50.08	1 1/2
1 1/2, 2	—	—	15	—	18 to 25	3 1/8	2 1/4	3 1/2	LE1-D25322	7X053	76.00	55.48	50.08	1 1/2
—	5	7 1/2, 10	20	20, 25	23 to 32	5	3	4 1/4	LE1-D40353	7X054	86.00	62.78	56.67	3
3	—	—	25	30	30 to 40	5	3	4 1/4	LE1-D40355	7X055	86.00	62.78	56.67	3
—	7 1/2	15	30	40	38 to 50	5	3	4 1/4	LE1-D40357	7X056	94.00	68.62	61.95	3
5	10	—	40	—	48 to 57	5	3	4 1/4	LE1-D63359	7X057	126.00	91.98	83.03	3
—	—	20	—	—	57 to 63	5	3	4 1/4	LE1-D63361	7X058	126.00	91.98	83.03	3

(*) Select starter based on motor full-load amps and HP. If motor full-load amps is greater than range shown, select next larger starter.

TELEMECANIQUE AC MAGNETIC CONTACTORS—SELECTION DATA and PRICES

MAXIMUM HP RATING AT 60 Hz					Maximum Full-Load Cont. Amps	MAGNETIC CONTACTOR ONLY					
Single Phase 115V	230V	Three Phase 200-230V 480V 575V				Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/2	2	3	7 1/2	7 1/2	12	LC1-D12KA60	5X305	\$46.00	\$33.58	\$30.31	9 oz.
2	3	5	15	15	25	LC1-D253KA60	5X306	58.00	42.34	38.22	1 1/2
3	7 1/2	15	30	40	40	LC1-D403K	5X307	68.00	49.64	44.81	2 3/4
5	10	20	40	40	63	LC1-D633K	5X308	100.00	73.00	65.90	2 3/4

24 TO 600 VAC OPERATING COILS FOR MAGNETIC MOTOR STARTERS & CONTROL RELAYS

Volts at 60 Hz	Fits Starter Stock Nos.	Fits Contactor Stock Nos.	Fits Control Relay Stock Nos.	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
24	—	—	—	LX1-D09020	5X323	\$10.00	\$7.30	\$6.59	1 oz.
120	7X045	—	5X341	LX1-D09110	5X324	10.00	7.30	6.59	1 oz.
208	—	5X305	—	LX1-D09190	5X325	10.00	7.30	6.59	1 oz.
240	thru	—	thru	LX1-D09220	5X326	10.00	7.30	6.59	1 oz.
480	7X051	—	5X344	LX1-D09415	5X327	10.00	7.30	6.59	1 oz.
600	—	—	—	LX1-D09550	5X328	10.00	7.30	6.59	1 oz.
24	—	—	—	LX1-D16021	5X329	14.00	10.22	9.23	1 oz.
120	7X052	—	—	LX1-D16110	5X330	14.00	10.22	9.23	1 oz.
208	—	—	—	LX1-D16190	5X331	14.00	10.22	9.23	1 oz.
240	and	5X306	—	LX1-D16220	5X332	14.00	10.22	9.23	1 oz.
480	7X053	—	—	LX1-D16415	5X333	14.00	10.22	9.23	1 oz.
600	—	—	—	LX1-D16550	5X334	14.00	10.22	9.23	1 oz.
24	—	—	—	LX6-D40020	5X335	16.00	11.68	10.54	8 oz.
120	7X054	5X307	—	LX6-D40100	5X336	16.00	11.68	10.54	8 oz.
208	—	—	—	LX6-D40175	5X337	16.00	11.68	10.54	8 oz.
240	thru	and	—	LX6-D40200	5X338	16.00	11.68	10.54	8 oz.
480	7X058	5X308	—	LX6-D40415	5X339	16.00	11.68	10.54	8 oz.
600	—	—	—	LX6-D40500	5X340	16.00	11.68	10.54	8 oz.

TELEMECANIQUE INDUSTRIAL CONTROL RELAYS

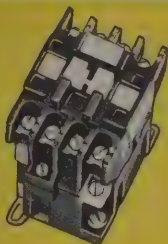
Compact Design. 600VAC, 10 Amps. 120VAC Operating Coil. UL and CSA Listed

4 Pole Relays

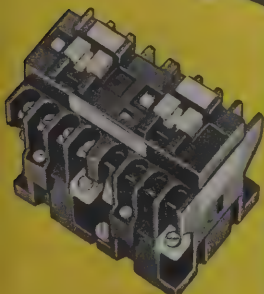
\$15.82

Lots 3

Shown: No. 5X341



- **COMPACT SIZE** allows maximum utilization of panel space.
- **SIMPLIFIED INSTALLATION.** Easy to mount on track or panel. Detailed instructions provided.
- **EASY TO WIRE.** Clearly marked terminals and self-lifting, pressure wire clamps make wiring easy. Numerical references on each terminal help relate to schematic diagrams and legend plate.
- **INSTALLED OPERATING COIL** rated 120VAC, 60 Hz. Optional 24 to 600V coils, on preceding page, can be substituted by removing two screws.
- **MAXIMUM FLEXIBILITY** is achieved by adding the various attachments listed below. These same attachments can be added to the D-line of magnetic starters on preceding page.



4 Pole
Latching-Type Relay

\$34.27

Lots 3

Space-saving design requires only the panel area of a 300 volt relay, but is rated at 600 volts AC. Normally open (N.O.) and normally closed (N.C.) contact configurations solve most control circuit requirements. Double-break, self-wiping, cross-hatched silver contacts provide long, trouble-free service life—even on low energy circuits. Latching-type, 4-pole relay contains two magnet coil assemblies, mechanically interlocked for reliable action. Snap-on contact attachments—available in 2 and 4 pole instantaneous type and timer models—mount on front of relays or magnetic motor starters to accommodate multiple contact arrangements. 120V, 60 Hz operating coil is standard. UL and CSA listed. Telemecanique brand. Shpg. wt. 9 oz. to 1½ lbs.

Contact Configuration N.O. N.C.	Overall Dimensions L W H			Mfrs. Model	Stock No.	Retail	Each	Lots 3

CONTROL RELAYS—600 VOLTS, 4 POLES

4	—	2½"	1¾"	2½"	CA2-DN140KA60	5X341	\$24.00	\$17.52	\$15.82
3	1	2½"	1¾"	2½"	CA2-DN131KA60	5X342	24.00	17.52	15.82
2	2	2½"	1¾"	2½"	CA2-DN122KA60	5X343	24.00	17.52	15.82

LATCHING-TYPE CONTROL RELAY—600 VOLTS, 4 POLES

2	2	2½"	3½"	3½"	CA2-DK122KA60	5X344	52.00	37.98	34.27
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ATTACHMENTS FOR CONTROL RELAYS & MAGNETIC STARTERS

600VAC, 10 Amps Continuous. Snap-On Design—No Tools Required for Assembly. UL and CSA Listed

2 and 4 POLE ATTACHMENTS

2 Pole

4 Pole

\$5.27 \$10.54

Lots 3

Lots 3



Shown:
No. 5X345

Two and 4-pole instantaneous-type attachments have silver flashed contacts rated at 10 amps. Normally open (N.O.) and normally closed (N.C.) contact configurations are listed in table below.

Attachments snap on front of relay or starter, eliminate need for fastening with screws. Telemecanique brand. Shpg. wt. 1 oz.

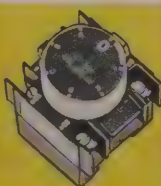
Contact Configurations N.O. N.C.	Mfrs. Model	Stock No.	Retail	Each	Lots 3
1 1	LA1-D11	5X345	\$8.00	\$5.84	\$5.27
4 —	LA1-D40	5X347	16.00	11.68	10.54
2 2	LA1-D22	5X348	16.00	11.68	10.54
1 3	LA1-D13	5X349	16.00	11.68	10.54
— 4	LA1-D04	5X348	16.00	11.68	10.54

TIMER ATTACHMENTS

All Models

\$31.63

Lots 3



Two types available: On or Off delay with repeatability of plus or minus 2%, full scale. Each type is hand adjustable within the range. One normally open and one normally closed contact rated 600 volts AC, 10 amps

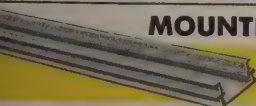
Inductive. Timer attachment mounts to front of relay or starter. Snap-on design eliminates need for fastening with screws. Telemecanique brand. Shpg. wt. 3 oz.

Type	Range in Seconds	Mfrs. Model	Stock No.	Retail	Each	Lots 3
On Delay	.1 to 30	LA2-D22	5X350	\$48.00	\$35.04	\$31.63
On Delay	10 to 180	LA2-D24	5X351	48.00	35.04	31.63
Off Delay	.1 to 30	LA3-D22	5X352	48.00	35.04	31.63
Off Delay	10 to 180	LA3-D24	5X353	48.00	35.04	31.63

MOUNTING TRACK

\$3.30

Lots 3



Snap on extruded aluminum mounting track for easy mounting and unmounting of above relays, plus 5X305 and 5X306 magnetic contactors. Overall dimensions ½" H x 1½" W x 27¼" L. Telemecanique brand (AM1-EA070). Wt. 6 oz.

No. 6X295. Retail \$5.00. Each \$3.65; lots 3, \$3.30

7X032-41

\$46.13

Lots 3

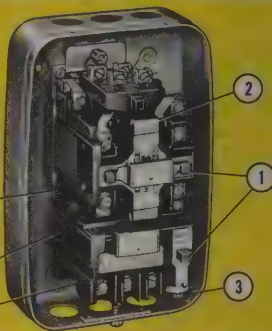
not normally found in conventional starters. Selection of proper starter depends on motor HP, voltage and phase. Two basic contact blocks plus only 13 interchangeable overload relays replace any of 200 conventional starters. Contact blocks are mounted in NEMA 1 general purpose space saver enclosure. Relays are shipped in separate cartons—easily attach to contact block and enclosure. Silver-cadmium contacts, double break, horizontal translation type for long life. 3-phase, 208-230VAC operating coil installed; optional coils for 115VAC single phase, 440-480VAC 3-phase listed below. Blue finish. $\frac{9}{16}$ L, 6 W, 5" H. Telemecanique brand.

1. Installed Start-Stop Push Button in cover is standard equipment and avoids costly field installations of extra-cost modification kits. Remote controlled push-button station, (No. 5X160) may be installed. See index under "Motor Controls & Accessories."

3. Adjustable Overload Full-Load Amp Selector, factory-calibrated in motor full-load amps; eliminates inventory of hundreds of heater elements; cuts installation time. Turn of knob permits dialing exact full-load motor amp value required for proper motor protection. Allows adjustment of protection tailored to motor.

4. Three Bi-metal Trip Elements are standard, instead of the usual two, to provide maximum motor protection. One or all operates a common trip bar which actuates a single trip-free switch in series with operating coil.

5. Current-Voltage Unbalance Detector is another feature not found in other controls. Senses current/voltage unbalance within poly-phase circuit, and automatically adjusts overload trip point to prevent hot spot damage to motor winding. Trips out quickly in event of single-phase (or 1 phase failure).



6. Ambient Compensator automatically compensates for varying ambient temperature (from 10° to 160°F); such as in boiler rooms, outside applications, etc. Nuisance tripping caused by in-plant or seasonal temperature variations is eliminated.

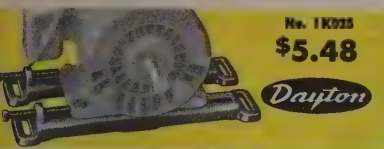
Nominal Motor HP Rating (60 Hz.)					Adjustable Overload Selection Range, Full Load Amp#	Complete Starter				Legs Shpg. Wt.	
Single 115V	Phase† 230V	208V	Polyphase 230V	460V*		575V*	Incl. Overload Stock No.	Retail	Each		Lots 3
—	1/10	3/4 1/8	3/4 1/8	3/8, 3/4	3/4, 1	1.0-1.5	7X032	\$70.00	\$51.10	\$46.13	5
—	1/8, 1/8	3/4 1/8	3/4 1/8	1	1 1/2	1.6-2.4	7X033	70.00	51.10	46.13	5
1/10, 1/8	3/4 1/8	3/4 1	3/4 1	1 1/2, 2	2, 3	2.5-3.9	7X034	70.00	51.10	46.13	5
3/8	3/4	1 1/2	3/4 1	3	4	4.0-5.4	7X035	70.00	51.10	46.13	5
1/2, 3/8	3/4	2	2	4	5	5.5-8.0	7X036	70.00	51.10	46.13	5
1/2	1	2	3	5	7 1/2	7.0-10.0	7X037	70.00	51.10	46.13	5
—	1 1/2	3	—	7 1/2	10	9.0-12.0	7X038	70.00	51.10	46.13	5
3/4	2	—	—	—	—	11.0-13.9	7X039	70.00	51.10	46.13	5
1	3	5	5	10	15	14.0-17.9	7X040	70.00	51.10	46.13	5
1 1/2	—	—	7 1/2	15	20	18.0-25.0	7X041	70.00	51.10	46.13	5
2	5	7 1/2	10	20	25	23.0-29.9	7X042	128.00	93.44	84.36	8
3	—	10	—	25	30	30.0-37.9	7X043	128.00	93.44	84.36	8
—	7 1/2	—	15	30	40	38.0-50.0	7X044	128.00	93.44	84.36	8

NOTE: For 115VAC use, replace factory installed 208-230VAC operating coil with optional 115VAC operating coil listed in table below.

(f) If motor full-load amps are not within "Adjustable Full-Load Amp Selector Range," select starter next size larger.

Coil Volts	Fits Starter Stock Nos.	Stock No.	Retail	Each	Lots 3	Coil Volts	Fits Starter Stock Nos.	Stock No.	Retail	Each	Lots 3
115	7X032 to 7X041	5X265	\$8.00	\$5.84	\$5.27	115	7X042 to 7X044	5X267	\$10.00	\$7.30	\$6.59
440-480	7X032 to 7X041	5X266	8.00	5.84	5.27	440-480	7X042 to 7X044	5X268	10.00	7.30	6.59
600	7X032 to 7X041	6X227	8.00	5.84	5.27	600	7X042 to 7X044	6X228	10.00	7.30	6.59

MOTOR MOUNTING RAILS



No. 1K025
\$5.48



for NEMA 56 to 505S frames. Make motor mounting and proper two-way belt adjustment easier. Slotted ends on all models. Cast-iron construction. Two rails per set. Includes bolts, nuts, washers, adjusting screw.

For NEMA Frames	H	W	L	Stock No.	Each Set	Shpg. Wt.
56 & 66	3/4	2 1/4	10 1/2	1K025	\$5.48	4 1/2
43T & 145T	3/4	2 1/4	10 1/2	1K025	5.48	4 1/2
82T to 215T	3/8	3 1/8	15 1/2	3K343	6.64	7
182 to 215	3/8	3 1/8	15 1/2	3K343	6.64	7
54T to 286T	1	4 1/4	18 1/2	1K027	9.27	12
54U to 286U	1	4 1/4	18 1/2	1K027	9.27	12
24T & 326TS	1 1/2	4 1/2	24 1/2	1K028	13.66	19
24U & 326US	1 1/2	4 1/2	24 1/2	1K028	13.66	19
54T to 445TS	1 1/2	4 1/2	30 1/2	1K029	18.12	25
54U to 505S	1 1/2	4 1/2	30 1/2	1K029	18.12	25

MOTOR MOUNTING RINGS



No. 2X456 No. 2X455 No. 2X283 No. 2X284

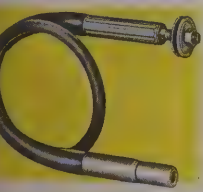
factory replacements for NEMA 56 frame motors. Durometer rating of rubber, 40 to 50. No. 2X456 No. 2X455 No. 2X283 No. 2X284

Motor Brand	Dimensions OD ID Thick.	Stock No.	Retail	Each	Lots 5
Dayton	2 1/2 x 1 1/2 x 1/2	2X456	\$1.15	\$1.03	\$0.93
Dayton	2 1/2 x 1 1/2 x 1/2	2X455	2.18	1.74	1.55
Westhse	2 1/2 x 1 1/2 x 1/2	2X456	1.15	1.03	.93
Delco	2 1/2 x 1 1/2 x 1/2	2X455	2.18	1.74	1.55
GE	2 1/2 x 1 1/2 x 1/2	2X283	1.27	1.06	.99
GE	2 1/2 x 1 1/2 x 1/2	2X284	1.58	1.13	1.04

No. 2X234. Mounting Latches, fasten motor to frame. 1 oz. Retail \$1.80. Pair \$1.27; lots 5...\$1.00

1/2 HP FLEXIBLE SHAFT

Long. Slip Clutch. 5/8" Wire Braided Housing



\$42.56 Lots 3

Flexible power shaft for industrial use with 1/4 to 1/2 HP motors, 3600 RPM maximum. Non-reversing shaft may be operated in a flexed band radius of seven inches minimum. Extruded vinyl-covered casing makes shaft both leak proof and corrosion resistant. 1" diameter inner core. Slip clutch and 5/8" wire braided housing, 60" long. Use on 1/2" diameter motor shaft. Hand-piece and motor coupling are ball bearing construction. 4 1/2 lbs.

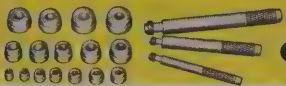
No. 2Z325. 1/2 HP Flexible Shaft. Retail \$70.50. Each \$45.83; lots 3...\$42.56

20-PC. BUSHING TOOL SET

For Removing or Inserting up to 1 1/2" Bushings



\$11.38 Lots 4



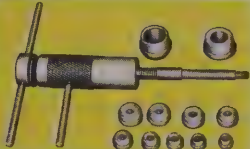
Set includes 3 drivers and 16 adapters that cover a 3/8 to 1 1/4" ID range and 1/16 to 1 3/8" OD range. Sizes clearly marked. Removes or inserts bushings and bearings, etc., in all types of equipment. Heat-treated steel, plated finish. 12 1/2" L x 4 1/4" W x 1 3/16" D carrying case. Wt. 4 lbs.

No. 4X083. Dayton Bushing Tool. Retail \$17.50. Each \$12.25; lots 4...\$11.38

BEARING TOOL-9 ADAPTERS

Removes 1/2 to 1" ID Bearings or Bushings

\$13.10 Lots 4



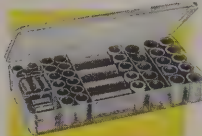
Has 9 adapters for removing or inserting any sleeve motor bearing or bushing 1/2" to 1" ID (by 1/16" increments) x 1 1/8" OD. Eliminates broken bearings or end bells. In steel box. Shpg. wt. 3 3/4 lbs.

No. 1X351. Dayton Bearing Tool. Retail \$20.15. Each \$14.11; lots 4...\$13.10

56-PC. BRONZE BUSHING KIT

\$14.48

Kit contains 56 bronze bushings from 3/8" ID

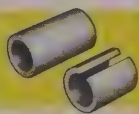


x 1 1/2" OD to 3/4" ID x 1" OD—a total of 9 assorted sizes. Self-lubricating type—ideally suited for motor bearings. Shpg. wt. 2 1/2 lbs.

No. 1X968. Bronze Bushing Kit. Retail \$19.69. Each \$15.75; lots 6...\$14.48

BEARINGS AND BUSHINGS

For Use on 1/4 to 7/8" Diameter Steel Shafts



Bearings are bronze construction, bushings are steel with 3/16" open joint for keyway. Ideal for motor and tool use.

OD	ID	Length	Stock No.	Retail	Each	Lots 10
3/8"	1/4"	3/4"	2X355	\$0.50	\$0.40	\$0.35
3/8"	1/4"	1"	2X380	.52	.41	.36
3/2	1 1/2	1"	1X871	.44	.35	.31
7/2	3 1/2	1"	4X664 (#)	.39	.28	.25
3/8"	1/2"	1 1/8"	1X868	.49	.39	.35
3/8"	1/2"	1 1/4"	2X773 (#)	.46	.33	.30
1 1/4"	1 1/2"	1 1/8"	1X866	.52	.41	.35
3/4"	1 1/2"	1 1/8"	1X870	.63	.50	.44
3/4"	5/8"	1"	1X867	.46	.37	.33
3/4"	5/8"	1 1/8"	1X869	.49	.39	.35
3/4"	5/8"	1 1/4"	2X774 (#)	.46	.33	.30
1	3/4"	1 1/8"	1X872	.90	.72	.66
1	5/4"	1 1/2"	2X775 (#)	.70	.50	.45
1	1 1/8"	1 1/4"	2X653 (#)	.35	.22	.20

(#) Split steel bushing, 3/16" open joint for keyway.

MALLEABLE IRON BALL BEARING PILLOW BLOCKS

Flange & Rigid Mount. Self-Aligning. Bores from 1/2 to 1 1/16". Exceed ABEC-1 Standards

FLANGE MOUNT

RIGID MOUNT



A Light Duty,
Set Screw
Lock, Sealed
Bearing



C Light Duty,
Set Screw Lock,
Sealed Bearing

E High Height,
Standard Duty,
Set Screw Lock,
Relube Bearing



B Standard Duty,
Set Screw
Lock, Relube
Bearing

Browning



D Low Height,
Standard Duty,
Eccentric Locking
Collar,
Relube
Bearing



Precision machined malleable iron housings with self-aligning, pre-lubricated ball bearings that exceed ABEC-1 standards. Equipped with molded rubber seal and metal insert to keep out contaminants. Withstand temperatures from -30° to +200° F, with intermittent highs to +250° F. Browning brand.

FLANGE MOUNT—Light duty, sealed bearing type is available in 1/2 to 1" bores; standard duty, relube type has bores from 3/4 to 1 1/16",

plus grease fitting in housing. Two set screw located 90° apart hold shaft.

RIGID MOUNT—Light duty, sealed bearing type is available in 1/2 to 1" bores. Standard duty relube models have 5/8 to 1 1/16" bore range. Grease fitting is located near top center of housing. Two set screws 90° apart secure shaft except low height pillow blocks have eccentric self-locking collar to maintain grip on shaft even under rapid start-stop or reversing loads.

Bore Dia.	Base to Mounting Ctr.	Mounting Holes O.C.	Size	Overall Dimen. Height Width	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
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A Flange Mount, FB110 Series—Light Duty, Set Screw Lock, Sealed Bearing

1/2"	1 1/8"	2 1/8"	3/8" Sq.	3 1/8"	2 1/8"	FB110 x 1/2	5X705	\$12.65	\$11.42	\$10.85	8 o
5/8"	1 1/8"	2 1/8"	3/8" Sq.	3 1/8"	2 1/8"	FB110 x 5/8	5X706	12.65	11.42	10.85	8 o
3/4"	1 1/8"	2 1/8"	11/16" Sq.	3 1/8"	2 1/8"	FB110 x 3/4	5X707	13.90	12.55	11.92	14 o
1"	1 7/8"	3"	1 1/16" Sq.	3 3/4"	2 1/8"	FB110 x 1	5X708	15.00	13.55	12.87	13 o

B Flange Mount, FB250 Series—Standard Duty, Set Screw Lock, Relube Bearing

3/4"	—	2 1/8"	1 1/8" Dia.	3 1/8"	3 1/8"	FB250 x 3/4	5X698	13.90	10.69	10.16	1 1/2
1"	—	2 3/8"	1 1/8" Dia.	3 1/8"	3 1/8"	FB250 x 1	5X699	15.00	11.54	10.97	1 1/2
1 1/8"	—	3 1/8"	1 1/8" Dia.	4 1/8"	4 1/8"	FB250 x 1 1/8	5X700	17.85	13.73	13.05	2
1 1/4"	—	3 5/8"	1 7/8" Dia.	4 1/8"	4 1/8"	FB250 x 1 1/4	5X701	20.95	16.11	15.31	2
1 1/2"	—	3 3/8"	1 7/8" Dia.	4 1/8"	4 1/8"	FB250 x 1 1/2	5X702	20.95	16.11	15.31	3
1 3/4"	—	4"	1 7/8" Dia.	5 1/8"	5 1/8"	FB250 x 1 3/4	5X703	22.55	17.34	16.48	3
1 7/8"	—	4 3/8"	1 7/8" Dia.	5 3/8"	5 3/8"	FB250 x 1 7/8	5X704	30.10	23.15	22.00	4

C Rigid Mount, PB100 Series—Light Duty, Set Screw Lock, Sealed Bearing

1/2"	1 1/8"	3 1/8"	1 1/8" x 5/8"	2 1/8"	1"	PB100 x 1/2	6X232	9.75	8.27	7.86	13 o
5/8"	1 1/8"	3 1/8"	1 1/8" x 5/8"	2 1/8"	1"	PB100 x 5/8	6X233	9.75	8.27	7.86	13 o
3/4"	1 1/8"	3 3/8"	1 1/8" x 5/8"	2 1/8"	1 1/8"	PB100 x 3/4	6X234	10.70	9.07	8.62	1
1"	1 1/8"	3 1/8"	1 1/8" x 5/8"	2 1/8"	1 1/8"	PB100 x 1	6X235	11.20	9.50	9.03	1

D Rigid Mount, PB220 Series—Low Height Standard Duty, Eccentric Locking Collar, Relube Bearing

5/8"	1 1/8"	3 3/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB220 x 5/8	5X682	12.65	9.73	9.25	1 1/2
3/4"	1 1/8"	3 3/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB220 x 3/4	5X683	13.90	10.69	10.16	1 1/2
1"	1 1/8"	4 1/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB220 x 1	5X684	15.00	11.54	10.97	1 1/2
1 1/8"	1 1/8"	4 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB220 x 1 1/8	5X685	17.85	13.73	13.05	2
1 1/4"	1 1/8"	5 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB220 x 1 1/4	5X686	20.95	16.11	15.31	3
1 1/2"	1 1/8"	5 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB220 x 1 1/2	5X687	20.95	16.11	15.31	4
1 3/4"	1 1/8"	5 3/8"	7/8" x 1"	3 1/8"	1 1/8"	PB220 x 1 3/4	5X688	22.55	17.34	16.48	3
1 7/8"	2 1/8"	6 3/8"	1 1/8" x 1 1/8"	4 3/8"	2 1/8"	PB220 x 1 7/8	5X689	30.10	23.15	22.00	7

E Rigid Mount, PB251 Series—High Height Standard Duty, Set Screw Lock, Relube Bearing

5/8"	1 1/8"	3 3/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB251 x 5/8	5X690	12.65	9.73	9.25	1
3/4"	1 1/8"	3 3/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB251 x 3/4	5X691	13.90	10.69	10.16	1 1/2
1"	1 1/8"	4 1/8"	7/8" x 7/8"	2 1/8"	1 1/8"	PB251 x 1	5X692	15.00	11.54	10.97	1 1/2
1 1/8"	1 1/8"	4 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB251 x 1 1/8	5X693	17.85	13.73	13.05	2
1 1/4"	1 1/8"	5 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB251 x 1 1/4	5X694	20.95	16.11	15.31	2
1 1/2"	1 1/8"	5 1/8"	7/8" x 1"	3 1/8"	1 1/8"	PB251 x 1 1/2	5X695	20.95	16.11	15.31	2
1 3/4"	2"	5 3/8"	7/8" x 1"	3 1/8"	1 1/8"	PB251 x 1 3/4	5X696	22.55	17.34	16.48	3
1 7/8"	2 1/8"	6 3/8"	1 1/8" x 1 1/8"	4 3/8"	2 1/8"	PB251 x 1 7/8	5X697	30.10	23.15	22.00	5

QUANTITY OEM PRICES ON REQUEST • SEE NEXT PAGE FOR PART NO. INTERCHANGE GUIDE

PILLOW BLOCK PART NUMBER INTERCHANGE GUIDE

Lists Browning, Boston, Dodge, Fafnir, Linkbelt, Sealmaster and SKF Part Numbers alongside Closest Comparable Grainger Stock Number Replacements

HOW TO USE: Simply find the column that lists your current pillow block brand in numerical sequence and locate the part number you're now purchasing. To the immediate right of that

number will be the stock number of nearest Grainger equivalent, listed on preceding page. Note: In a few cases Grainger equivalents vary dimensionally—check size before ordering.

Mfrs. Part No.	Grainier Stock No.	Mfrs. Part No.	Grainier Stock No.	Mfrs. Part No.	Grainier Stock No.	Mfrs. Part No.	Grainier Stock No.
BROWNING		BOSTON(Cont'd.)		FAMNIR(Cont'd.)		SEALMASTER(Cont'd.)	
B110 x 1/2	5X705	7L	5X687	RAS	5/8* 5X690	LP-8	6X232
B110 x 3/4	5X706	8L	5X688	RAS	1 5X691	LP-10	6X233
B110 x 1	5X707	10L	5X689	RAS	1 5X692	LP-12	6X234
B110 x 1 1/2	5X708			RAS	1 1/2* 5X693	LP-16	6X235
B250 x 3/4	5X698	DODGE		RAS	1 1/2* 5X694	NP-10	5X690
B250 x 1	5X699	SC	5/8 5X690	RAS	1 1/2* 5X695	NP-12	5X691
B250 x 1 1/4	5X700	SC	3/4 5X691	RAS	1 1/2* 5X696	NP-16	5X692
B250 x 1 1/2	5X701	SC	1 5X692	RAS	1 1/2* 5X697	NP-19	5X693
B250 x 1 3/4	5X702	SC	1 1/2 5X693	RCJ	3/4* 5X698	NP-20	5X694
B250 x 1 1/2	5X703	SC	1 1/2 5X694	RCJ	1 5X699	NP-23	5X695
B250 x 1 1/2	5X704	SC	1 1/2 5X695	RCJ	1 1/2* 5X700	NP-24	5X696
B100 x 1/2	6X232	SC	1 1/2 5X696	RCJ	1 1/2* 5X701	NP-31	5X697
B100 x 5/8	6X233	SC	1 1/2 5X697	RCJ	1 1/2* 5X702	SF-12	5X698
B100 x 3/4	6X234	SC-4	3/4 5X698	RCJ	1 1/2* 5X703	SF-16	5X699
B100 x 1	6X235	SC-4	1 5X699	RCJ	1 1/2* 5X704	SF-19	5X700
B220 x 5/8	5X682	SC-4	1 1/2 5X700			SF-20	5X701
B220 x 3/4	5X683	SC-4	1 1/2 5X701	LINKBELT		SF-23	5X702
B220 x 1	5X684	SC-4	1 1/2 5X702	FX-W2B08U*	5X705	SF-24	5X703
B220 x 1 1/4	5X685	SC-4	1 1/2 5X703	FX-W210U*	5X706	SF-31	5X704
B220 x 1 1/2	5X686	SC-4	1 1/2 5X704	FX-W212U*	5X707	S-510-M†	5X682
B220 x 1 3/4	5X687	SUP	1/2 6X232	FX-W216U*	5X708	S-512-M†	5X683
B220 x 1 1/2	5X688	SUP	5/8 6X233	F3-U212N	5X698	S-516-M†	5X684
B220 x 1 1/2	6X689	SUP	3/4 6X234	F3-U216N	5X699	S-519-M†	5X685
B251 x 3/4	5X690	SUP	1 6X235	F3-U219N	5X700	S-520-M†	5X686
B251 x 1	5X691	SUP-2	1/2 5X705	F3-U220N	5X701	S-523-M†	5X687
B251 x 1 1/4	5X692	SUP-2	5/8* 5X706	F3-U223N	5X702	S-524-M†	5X688
B251 x 1 1/2	5X693	SUP-2	5/8* 5X707	F3-U224N	5X703	S-531-M†	5X689
B251 x 1 3/4	5X694	SUP-2	1 5X708	F3-U231N	5X704		
B251 x 1 1/2	5X695	SXB	5/8 5X682	P-W2B08U	6X232	SKF	
B251 x 1 1/4	5X696	SXB	3/4 5X683	P-W210U	6X233	FY-012	5X698
B251 x 1 1/2	5X697	SXB	1 5X684	P-W212U	6X234	FY-100	5X699
		SXB	1 1/2 5X685	P-W216U	6X235	FY-103	5X700
		SXB	1 1/2 5X686	PL3-Y210N	5X682	FY-104	5X701
BOSTON		SXB	1 1/2 5X687	PL3-Y212N	5X683	FY-107	5X702
	5X698	SXB	1 1/2 5X688	PL3-Y216N	5X684	FY-108	5X703
	5X699	SXB	1 1/2 5X689	PL3-Y219N	5X685	FY-115	5X704
	5X700			PL3-Y220N	5X686	SUP-12	6X234
	5X701	FAMNIR		PL3-Y223N	5X687	SUP-16	6X235
		PFTD	1/2* 5X705	PL3-Y224N	5X688	SYH-012X	5X683
		PFTD	3/4* 5X706	PL3-Y231N	5X689	SYH-100X	5X684
		PFTD	1 5X707	P3-U210N	5X690	SYH-103X	5X685
		PFTD	1 1/2 5X708	P3-U212N	5X691	SYH-104X	5X686
	5X691	PSD	1/2 6X232	P3-U216N	5X692	SYH-107X	5X687
	5X692	PSD	3/4 6X233	P3-U219N	5X693	SYH-108X	5X688
	5X693	PSD	1 6X234	P3-U220N	5X694	SYH-115X	5X689
	5X694	PSD	1 6X235	P3-U223N	5X695	SY-012	5X691
		RAK	5/8 5X682	P3-U224N	5X696	SY-100	5X692
	5X695	RAK	3/4 5X683	P3-U231N	5X697	SY-103	5X693
	5X696	RAK	1 5X684	SEALMASTER		SY-104	5X694
	5X697	RAK	1 1/2 5X685	LFT-8	5X705	SY-107	5X695
	5X682	RAK	1 1/2 5X686	LFT-10	5X706	SY-108	5X696
	5X683	RAK	1 1/2 5X687	LFT-12	5X707	SY-115	5X697
	5X684	RAK	1 1/2 5X688	LFT-16	5X708		
	5X685						
	5X686						

**Eccentric locking collar instead of set screw lock.
Set screw lock instead of eccentric locking collar.**

FACTORY PARTS FOR DAYTON MOTORS AVAILABLE FROM STOCK

Genuine Dayton replacement parts are available from large Chicago stock. Same day shipping service. Single phase Dayton motor parts include: Centrifugal Switches (rotating & stationary), Bearings, Capacitors, Overload Protectors, Internal & External Fans, Capacitor



Covers, etc. Include Dayton motor stock and model number on order and send to nearest Grainger address.

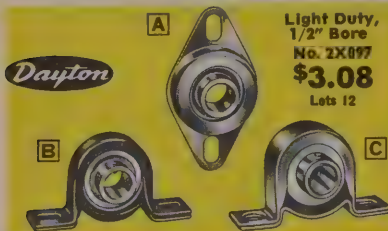
Dayton Motor Parts List No. 5S1040 is available to motor repairers—request copy from your Grainger counterman or salesman.

SEALED BALL BEARING PILLOW BLOCKS

1/2 to 1" Bores. Standard and Flange Mounted Types. Self-Aligning. Dayton brand

Widely used on fans, blowers, tools, conveyors, etc. Sturdy two-piece wrought steel housing locks bearing firmly in place, except single

housing on flange type. Permanently lubricated, sealed ball bearings surrounded by oil-resistant, non-conductive synthetic rubber ring cushions vibration, reduces noise, corrects misalignment.



Light Duty,
1/2" Bore
No. 2X897
\$3.08
Lots 12

LIGHT DUTY in standard and flange types have nylon-sealed Shatz ball bearings. Races machined from quality steel. Inner race extends $\frac{1}{16}$ " and has two No. 10-32 socket head set screws set 90° apart.

MEDIUM DUTY pillow blocks have precision Greene ball bearings with Grade 1, chrome-steel balls that are nearly matched (0.00001" tolerance) and accurately spaced with nylon separators. Inner and outer races are precision machined from high carbon, high chrome ball bearing quality steel, heat treated to 61-63 Rockwell C scale, and ground to ABEC-1 standards. $\frac{1}{4}$ "-28 socket head set screw. Slotted mounting holes.

A LIGHT DUTY FLANGE MOUNTED PILLOW BLOCKS

Bore Dia.	Base to Shaft Center	Mounting on Center	Hole Dia.	Overall Height	Overall Width	Finish	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
1/2"	2"	3"	$\frac{3}{8}$ "	4"	2"	Plated	4X727	\$5.65	\$3.39	\$3.11	6 oz.
5/8"	2"	3"	$\frac{3}{8}$ "	4"	2"	Plated	4X728	5.90	3.54	3.25	6 oz.
3/4"	2 1/4"	3 3/8"	$\frac{7}{16}$ "	4 1/2"	2 1/2"	Plated	4X729	6.75	4.05	3.71	9 oz.
1"	2 1/4"	3 3/8"	$\frac{7}{16}$ "	4 1/2"	2 1/2"	Plated	4X730	7.50	4.50	4.13	9 oz.

B LIGHT DUTY STANDARD MOUNTED PILLOW BLOCKS

Bore Dia.	Base to Shaft Center	Mounting on Center	Hole Dia.	Overall Height	Overall Width	Finish	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
1/2"	$\frac{15}{16}$ "	3 3/8"	$\frac{7}{16}$ "	1 7/8"	4 3/8"	Plated	2X897	\$5.60	\$3.36	\$3.08	4 oz.
5/8"	$\frac{15}{16}$ "	3 3/8"	$\frac{7}{16}$ "	1 7/8"	4 3/8"	Plated	2X898	5.90	3.54	3.25	4 oz.
3/4"	1 1/8"	3 7/8"	$\frac{7}{16}$ "	2 5/8"	4 7/8"	Plated	2X899	6.75	4.05	3.71	8 oz.
1"	1 1/8"	3 7/8"	$\frac{7}{16}$ "	2 5/8"	4 7/8"	Plated	2X900	7.50	4.50	4.13	8 oz.

C MEDIUM DUTY STANDARD MOUNTED PILLOW BLOCKS

Bore Dia.	Base to Shaft Center	Mounting on Center	Hole Dia.	Overall Height	Overall Width	Finish	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
1/2"	$\frac{15}{16}$ "	3 1/2"	$\frac{7}{16}$ "	2 5/8"	4 5/8"	Plated	2X403	\$9.05	\$5.43	\$4.98	1
5/8"	$\frac{15}{16}$ "	3 1/2"	$\frac{7}{16}$ "	2 5/8"	4 5/8"	Plated	2X404	9.05	5.43	4.98	1
3/4"	$\frac{15}{16}$ "	3 1/2"	$\frac{7}{16}$ "	2 5/8"	4 5/8"	Plated	2X405	9.05	5.43	4.98	12 oz.
1"	1 1/2"	4"	$\frac{7}{8}$ "	2 7/8"	5 1/8"	Plated	2X406	9.70	5.82	5.34	1

BRONZE BEARING PILLOW BLOCKS

1/2 to 1" Bores. Standard & Flange Mount
Self-Aligning. Extra Large Oil Reservoir

Dayton
Standard Mount
\$1.82
Lots 24

These high-quality, Dayton pillow blocks incorporate unique design features not found in other lines of equal cost. Features include positive self-alignment (not affected by pressure of mounting bolts), extra large oil reservoir, plus static and vibration-retarding, $\frac{3}{32}$ " thick rubber mounting grommets. Individually boxed. Avg. shpg. wt. 8 oz.

Fig. A. STANDARD MOUNTING. Special design permits rotation of oil cup to choice of four positions. Large porous bronze thrust flange for horizontal or vertical mounting. Shaft height $1\frac{1}{2}$ ", including grommet. Mounting holes $\frac{7}{16}$ " dia., on 3" centers. Overall length 4".

Fig. B. FLANGE MOUNTING. Oil cup mounting at 45° permits horizontal or vertical mounting. Shaft height $2\frac{1}{2}$ " when in vertical position and including grommet. Mounting holes $\frac{7}{16}$ " dia., on 3 3/8" centers. Overall size $4\frac{3}{8}$ x $2\frac{3}{4}$ ".



(A) STANDARD-MOUNT PILLOW BLOCKS

Bore Diameter	Stock No.	Retail	Each	Lots 12	Lots 24
1/2"	2X567	\$3.30	\$1.98	—	\$1.82
5/8"	2X529	3.30	1.98	—	1.82
3/4"	2X530	3.30	1.98	—	1.82
1"	2X531	3.30	1.98	—	1.82

(B) FLANGE-MOUNT PILLOW BLOCKS

Bore Diameter	Stock No.	Retail	Each	Lots 12	Lots 24
1/2"	4X815	\$3.55	\$2.13	\$1.95	—
5/8"	4X816	3.55	2.13	1.95	—
3/4"	4X817	3.55	2.13	1.95	—
1"	4X818	3.55	2.13	1.95	—

NEMA STANDARDS ON ELECTRIC MOTORS LISTED HEREIN

Electric motors listed in this catalog are manufactured to the dimensional, performance, and electrical standards established by NEMA (National Electrical Manufacturers Association).



3-PIECE FLEXIBLE COUPLINGS

For pumps, tools and other equipment. Three-piece type: order two bodies (ends) with desired bores and one spider (center). Bodies are made of high tensile strength aluminum alloy. Service-rated spiders are made of Buna-N compound—a material that is unaffected by dust, dirt, oil or water. Easily installed



Body — Spider — Body

and aligned; no wear on metal jaws. 5/8" and larger couplings have standard keyway. Hollow-head set screws on all couplings. Lovejoy brand.

For complete coupling, order two bodies with desired bore of same rated HP, and one spider from same grouping.

COMPLETE COUPLING Load Ratings & Dimensions For 2 Bodies, One Spider						COUPLING BODY Two Required For Each Complete Coupling						SPIDER One Required For Each Complete Coupling					
Max. Load	Rating			Dimen.	Mfrs.	Bore	Stock	Retail	Per	Lots	Shpg.	Stock	Retail	Per	Lots	Shpg.	
HP	RPM	HP	RPM	OD	Lgth.	Dia.	No.		Body	20, Asst'd.	Wt.	No.		Spider	Asst'd.	Wt.	
1/4	1800	1/8	1200	1 3/8"	1 3/4"	AL050	1/4"	4X236	\$1.00	\$0.52	\$0.48	1 oz.	1X409	\$0.70	\$0.37	\$0.34	1 oz.
1/4	1800	1/8	1200	1 3/8"	1 3/4"	AL050	3/8	4X175	1.00	.52	.48	1 oz.	1X408	.70	.37	.34	1 oz.
1/4	1800	1/8	1200	1 3/8"	1 3/4"	AL050	7/16	6X070	1.00	.52	.48	1 oz.	1X409	.70	.37	.34	1 oz.
1/4	1800	1/8	1200	1 3/8"	1 3/4"	AL050	1/2	4X176	1.00	.52	.48	1 oz.	1X409	.70	.37	.34	1 oz.
1/4	1800	1/8	1200	1 3/8"	1 3/4"	AL050	5/8	4X177	1.00	.52	.48	1 oz.	1X409	.70	.37	.34	1 oz.
1/2	1800	1/4	1200	1 3/8"	2	AL070	1/2	4X178	1.60	.82	.75	2 oz.	1X408	1.00	.52	.48	1 oz.
1/2	1800	1/4	1200	1 3/8"	2	AL070	5/8	4X179	1.60	.82	.75	2 oz.	1X408	1.00	.52	.48	1 oz.
1/2	1800	1/4	1200	1 3/8"	2	AL070	3/4	4X180	1.60	.82	.75	2 oz.	1X408	1.00	.52	.48	1 oz.
1800	1/2	1200	1 3/8"	2 1/2"	2 1/2"	AL075	1/2	4X181	2.00	1.02	.94	3 oz.	2X814	1.65	.85	.78	1 oz.
1800	1/2	1200	1 3/8"	2 1/2"	2 1/2"	AL075	5/8	4X182	2.00	1.02	.94	3 oz.	2X814	1.65	.85	.78	1 oz.
1800	1/2	1200	1 3/8"	2 1/2"	2 1/2"	AL075	3/4	4X183	2.00	1.02	.94	3 oz.	2X814	1.65	.85	.78	1 oz.
1800	1/2	1200	1 3/8"	2 1/2"	2 1/2"	AL075	7/8	4X184	2.00	1.02	.94	3 oz.	2X814	1.65	.85	.78	1 oz.
1800	1	1200	2 1/2"	2 1/2"	2 1/2"	AL090	1/2	4X185	3.00	1.52	1.40	4 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1	1200	2 1/2"	2 1/2"	2 1/2"	AL090	5/8	4X186	3.00	1.52	1.40	4 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1	1200	2 1/2"	2 1/2"	2 1/2"	AL090	3/4	4X187	3.00	1.52	1.40	4 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1	1200	2 1/2"	2 1/2"	2 1/2"	AL090	7/8	4X188	3.00	1.52	1.40	4 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	1/2	6X071	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	5/8	6X072	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	3/4	4X191	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	7/8	4X192	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	1	4X193	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
1800	1-1/2	1200	2 1/2"	2 1/2"	2 1/2"	AL095	1-1/8	6X073	4.65	2.37	2.18	6 oz.	1X407	2.25	1.15	1.06	1 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	3/4	6X074	8.20	4.15	3.83	9 oz.	1X408	4.80	2.42	2.23	2 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	7/8	6X075	8.20	4.15	3.83	9 oz.	1X406	4.80	2.42	2.23	2 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	1	6X076	8.20	4.15	3.83	9 oz.	1X406	4.80	2.42	2.23	2 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	1-1/8	4X194	8.20	4.15	3.83	8 oz.	1X406	4.80	2.42	2.23	2 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	1-1/4	4X195	8.20	4.15	3.83	8 oz.	1X406	4.80	2.42	2.23	2 oz.
-1/2	1800	3	1200	2 3/8"	3 3/8"	AL100	1-3/8	4X196	8.20	4.15	3.83	8 oz.	1X406	4.80	2.42	2.23	2 oz.

1-PIECE, 1/2" BORE FLEXIBLE COUPLINGS

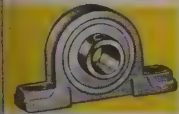


No. 2X497 For direct-drive equipment where misalignment will not allow use of 3-piece coupling. Set screws in metal collars. Rated 1/2 HP at 1725 RPM. Flexible Coupling brand. Shpg. wt. 3 oz.

Length	Bore Dia.	Stock No.	Retail	Each	Lots 10
2 1/2"	1 1/2"	2X497	\$1.65	\$1.25	\$1.13
3	1 3/4"	2X498	1.70	1.31	1.18
3 1/2	1 7/8"	2X499	1.85	1.40	1.26

BALL BRG. PILLOW BLOCKS

Rigid Mount. 1/2 to 1" Bores. Exceed ABEC.1 Stds.



For use on machine tools, conveyors, printing machinery and farm equipment. Precision-made Greene ball bearings exceed ABEC. 1 standards and are permanently sealed and lubricated for life. Bearing encased in die-cast housing of high-tensile strength Zamak®, rated 30,000 lbs. per square inch. Overall height 2 1/8", width 1 3/8", except 1" bore pillow block which is 2 1/8" high, 1 1/8" wide. Mounting holes 3/8" slot. Socket set screws, 1/4"-28. No. 4X726 with 1" bore has set screws placed 90° apart. Dayton brand.



	Base to Mtg. C. O. C.	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
2"	1 1/2"	4X723	\$8.50	\$5.10	\$4.68	14 oz.
2 1/8"	1 3/4"	4X724	8.50	5.10	4.68	14 oz.
2 1/4"	1 3/8"	4X725	8.50	5.10	4.68	12 oz.
2 1/2"	1 3/4"	4X726	9.05	5.43	4.98	1

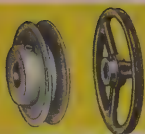


SHAFT COLLARS

1/4 to 2" Inside Dia. Range For tools, machinery, etc. Hex set screws. Dayton brand.

ID	OD	Wide	Cup-Set Screw	Stock No.	Each	Lots 10	Lots 100	WL
1/4"	5/8"	3/8"	#10/32	2X735	\$0.35	\$0.30	\$0.25	8
5/16"	1 1/8"	1/2"	3/4-28T	2X736	.35	.30	.25	4
3/8"	1 1/4"	5/8"	3/4-28T	2X737	.39	.33	.28	4 1/2
1/2"	1 3/8"	3/4"	3/4-28T	2X568	.49	.33	.28	5
5/8"	1 7/8"	7/8"	3/4-28T	2X569	.49	.39	.33	9
3/4"	2"	1 1/8"	3/4-18T	2X570	.49	.42	.35	12
7/8"	2 1/8"	1 1/4"	3/4-18T	2X738	.63	.54	.45	18
1"	2 1/4"	1 1/2"	3/4-18T	2X571	.65	.56	.47	20
1 1/8"	2 3/4"	1 3/4"	3/4-18T	2X739	.81	.78	.65	24
1 1/4"	3"	1 7/8"	3/4-18T	5X643	1.44	1.23	1.03	26
1 1/2"	3 1/4"	2"	3/4-18T	2X740	1.44	1.23	1.03	26
1 3/4"	3 1/2"	2 1/8"	3/4-16T	5X644	1.86	1.59	1.33	55
1 7/8"	3 3/4"	2 1/4"	3/4-16T	5X645	1.86	1.59	1.33	55
2"	4"	2 1/2"	3/4-16T	4X228	1.86	1.59	1.33	55
2 1/8"	4 1/4"	2 3/4"	3/4-16T	5X646	3.54	3.03	2.53	110
2 1/4"	4 1/2"	2 7/8"	1/2-13T	4X229	3.85	3.30	2.75	114
2 1/2"	4 3/4"	3"	1/2-13T	4X230	3.78	3.24	2.70	110
2 3/4"	5"	3 1/8"	1/2-13T	4X231	4.13	3.54	2.95	102
3"	5 1/4"	3 1/4"	1/2-13T	4X232	4.13	3.54	2.95	100

SINGLE GROOVE CAST-IRON SHEAVES



Browning

Heavy-duty single-groove sheaves for 3L, 4L, 5L and multiple A and B section belt drives. Available in fixed bore in O-A section and either fixed or bushed bore in A - B section drives. Precision cast and machined for perfect balance. Solid construction on fixed bore through 4.45" OD; bushed bore through 6.45" OD. Larger sizes are spoke construction. Fixed bore sheaves have standard keyway and hollow head set screws; bushed bore type for use with malleable double split taper bushings complete with cap screws and provision for standard keyway. Browning brand.

	OD Inches	Pitch Diameter A Belt	Diameter B Belt	Mfrs. Model	For Bore Size, Specify Stock Number					Retail	Each	Lot 10 Asst.	Lot 25 Asst.	Shpg. Wt.
					1/2"	5/8"	3/4"	7/8"	1"					
FIXED BORE O-A SECTION	1.75	1.5"	1.16"	AK17	3X758	3X759	—	—	—	\$4.16	\$2.18	\$1.89	\$1.76	4 oz.
	2.00	1.8	1.46	AK20	3X760	3X761	3X762	—	—	4.16	2.18	1.89	1.76	8 oz.
	2.20	2.0	1.66	AK22	3X763	3X764	3X808	—	—	4.34	2.27	1.97	1.84	8 oz.
	2.50	2.3	1.96	AK25	3X765	3X766	3X767	3X768	—	4.80	2.51	2.18	2.04	8 oz.
	2.80	2.6	2.26	AK28	3X769	3X770	3X771	3X772	—	5.60	2.88	2.50	2.33	12 oz.
	3.45	3.2	2.86	AK34	3X773	3X774	3X775	3X776	—	6.66	3.49	3.03	2.82	1
	3.95	3.7	3.36	AK41	3X777	3X778	3X779	3X813	3X809	9.58	5.02	4.36	4.06	1 1/2
	4.45	4.2	3.86	AK46	3X781	3X782	3X783	3X814	3X810	10.28	5.38	4.67	4.36	1 1/2
	4.95	4.7	4.36	AK51	3X784	3X785	3X786	3X815	3X811	10.96	5.74	4.98	4.65	1 3/4
	5.45	5.2	4.86	AK56	3X787	3X788	3X789	3X816	3X812	11.98	6.27	5.45	5.08	2
	5.93	6.0	—	AL64	—	3X790	3X791	(*)	3X792	12.50	6.55	5.68	5.30	2 1/2
	6.93	7.0	—	AL74	—	3X793	3X794	(*)	3X795	13.20	6.91	6.00	5.60	1 1/2
	7.93	8.0	—	AL84	—	3X796	3X797	(*)	3X798	14.20	7.44	6.46	6.02	1 3/4
	8.93	9.0	—	AL94	—	3X799	3X800	(*)	3X801	16.10	8.43	7.32	6.83	2 1/2
	9.93	10.0	—	AL104	—	—	3X802	(*)	3X803	16.90	8.85	7.68	7.17	3
	10.93	11.0	—	AL114	—	—	3X804	(*)	3X805	20.30	10.63	9.23	8.61	3 1/2
	11.93	12.0	—	AL124	—	—	—	(*)	3X806	24.10	12.62	10.96	10.22	3 3/4
	14.16	14.0	—	AM144	—	—	—	(*)	3X807	33.90	17.75	15.41	14.37	4 1/2
	OD Inches	Pitch Diameter A Belt	Diameter B Belt	Mfrs. Model	For Bore Size, Specify Stock Number					Retail	Each	Lot 10 Asst.	Lot 25 Asst.	Shpg. Wt.
					1/2"	5/8"	3/4"	7/8"	1"					
FIXED BORE A-B SECTION	2.00	1.4"	1.9"	BS20	3X821	3X822	3X823	—	—	\$6.06	\$3.17	\$2.76	\$2.57	8 oz.
	2.50	1.9	2.3	BK25	3X824	3X825	3X826	3X827	—	6.00	3.14	2.73	2.54	8 oz.
	2.70	2.1	2.5	BK27	3X854	3X855	3X856	3X857	—	6.60	3.46	3.00	2.80	12 oz.
	2.95	2.2	2.6	BK28	3X828	3X829	3X830	3X831	—	6.60	3.48	3.00	2.80	1
	3.15	2.4	2.8	BK30	3X858	3X859	3X860	3X861	—	6.78	3.55	3.08	2.87	1
	3.35	2.6	3.0	BK32	3X832	3X833	3X834	3X835	3X852	7.36	3.85	3.35	3.12	1
	3.55	2.8	3.2	BK34	3X862	3X863	3X864	3X865	3X866	9.04	4.73	4.11	3.83	1 1/4
	3.75	3.0	3.4	BK36	3X867	3X868	3X869	3X870	3X871	9.86	5.16	4.48	4.18	1 1/2
	3.95	3.2	3.6	BK40	3X836	3X837	3X838	3X872	3X850	10.28	5.38	4.67	4.36	2
	4.25	3.5	3.9	BK45	3X840	3X841	3X842	3X873	3X439	10.52	5.51	4.78	4.46	1 3/4
	4.45	3.7	4.1	BK47	3X874	3X875	3X876	3X877	3X878	11.36	5.95	5.17	4.82	1 1/2
	4.75	4.0	4.4	BK60	3X879	3X880	3X881	3X882	3X853	11.52	6.03	5.24	4.88	2
	4.95	4.2	4.6	BK52	3X843	3X844	3X845	3X883	3X851	11.56	6.05	5.26	4.90	2

(*) 1 to 7/8" SPLIT STEEL BUSHING. For adapting 1" bore sheaves to 7/8" diameter shafts. Split ample for sheave keyway. 1 3/16" long. Shpg. wt. 6 oz. No. 2X653. Retail \$0.41. Each 25¢; lots 10.....23¢

	OD Inches	Pitch Diameter A Belt	Diameter B Belt	Mfrs. Model	Stock No.	—Sheaves Priced Less Bushings—				Shpg. Wt.
						Retail	Each	Lots 10, Asst'd	Lots 25, Asst'd	
BUSHED BORE A-B SECTION	3.95	3.2"	3.8"	BK40H	3X582	\$9.56	\$5.01	\$4.35	\$4.05	1 1/2
	4.25	3.5	3.9	BK45H	3X583	10.06	5.27	4.67	4.27	2
	4.45	3.7	4.1	BK47H	3X584	10.42	5.46	4.74	4.42	2 1/4
	4.75	4.0	4.4	BK50H	3X585	12.10	6.34	5.50	5.13	2
	4.95	4.2	4.6	BK52H	3X586	12.24	6.41	5.57	5.19	2
	5.25	4.5	4.9	BK55H	3X587	12.88	6.74	5.86	5.46	2 1/2
	5.45	4.7	5.1	BK57H	3X588	13.02	6.82	5.92	5.52	2 3/4
	5.75	5.0	5.4	BK60H	3X589	13.38	7.01	6.08	5.67	2 3/4
	5.95	5.2	5.6	BK62H	3X590	14.10	7.38	6.41	5.98	3
	6.25	5.5	5.9	BK65H	3X591	15.04	7.87	6.84	6.38	3 1/2
	6.45	5.7	6.1	BK67H	3X592	15.48	8.11	7.04	6.56	3 3/4
	6.75	6.0	6.4	BK70H	3X593	16.02	8.39	7.28	6.79	3
	6.95	6.2	6.6	BK72H	3X594	16.76	8.78	7.62	7.11	3
	7.25	6.5	6.9	BK75H	3X595	17.46	9.14	7.94	7.40	3 1/2
	7.45	6.7	7.1	BK77H	3X596	17.68	9.26	8.04	7.50	3 3/4
	7.75	7.0	7.4	BK80H	3X597	17.98	9.48	8.18	7.62	3 3/4
	8.25	7.5	7.9	BK85H	3X598	19.96	10.45	9.08	8.46	4
	8.75	8.0	8.4	BK90H	3X599	21.24	11.12	9.66	9.01	4 1/2
	9.25	8.5	8.9	BK95H	3X600	22.84	11.96	10.39	9.68	5
	9.75	9.0	9.4	BK100H	3X601	23.72	12.42	10.79	10.06	5
	10.25	9.5	9.9	BK105H	3X602	24.18	12.66	10.99	10.25	5 1/2
	10.75	10.0	10.4	BK110H	3X603	26.08	13.66	11.86	11.06	6
	11.25	10.5	10.9	BK115H	3X604	26.90	14.08	12.23	11.41	6 1/2
	11.75	11.0	11.4	BK120H	3X605	28.86	15.11	13.12	12.24	7
	12.75	12.0	12.4	BK130H	3X606	31.58	16.54	14.36	13.39	7 1/2
	13.75	13.0	13.4	BK140H	3X607	35.82	18.76	16.29	15.19	9 1/2
	14.75	14.0	14.4	BK150H	3X608	38.90	20.37	17.69	16.49	11
	15.75	15.0	15.4	BK160H	3X609	41.86	21.92	19.03	17.75	11
	18.75	18.0	18.4	BK190H	3X610	57.26	29.98	26.04	24.28	13

DOUBLE GROOVE CAST-IRON SHEAVES

2 1/2 to 18 3/4" OD. Bore to 1 1/16". For A & B Section Drives

Browning

Heavy-duty double-groove cast-iron sheaves for 4L, 5L, and multiple A & B section belt drives. Precision cast and machined for perfect balance. Fixed bore sheaves with standard keyway and hollow head set screw from 2.50 to 4.95" OD, up to 1 3/8" bore. Bushed bore sheaves from 3.35 to 18.75" OD for use with malleable split taper bushings for bores 5/8 thru 1 1/16". Bushings are double split taper with cap screws and provision for standard keyway. Browning brand.

OD Inches	Pitch Dia.		Mfr. Model	FOR BORE SIZE, SPECIFY STOCK NUMBER							Lots 10		Lots 25	Shpg. Wt.	
	A Belt	B Belt		%	3/4"	7/8	1"	1 1/8"	1 1/4"	1 3/8"	Retail	Each			Ass't'd.
2.50	1.9"	2.3"	2BK25	3X386	3X513	3X414	—	—	—	—	\$14.56	\$7.82	\$6.82	\$6.17	1 1/2
2.70	2.1	2.5	2BK27	3X387	3X514	3X415	3X515	—	—	—	15.04	7.87	6.84	6.38	1 1/2
2.95	2.2	2.6	2BK28	3X388	3X516	3X384	3X517	3X419	—	—	16.18	8.47	7.36	6.86	2
3.15	2.4	2.8	2BK30	3X441	3X389	3X390	3X518	3X420	—	—	17.22	9.02	7.83	7.30	2
3.35	2.6	3.0	2BK32	3X391	3X519	3X442	3X520	3X443	—	—	18.00	9.42	8.18	7.63	2 1/2
3.55	2.8	3.2	2BK34	3X408	3X521	3X357	3X522	3X316	3X523	—	18.78	9.83	8.54	7.96	2 1/2
3.75	3.0	3.4	2BK36	3X409	3X525	3X328	3X526	3X392	3X527	3X528	19.30	10.11	8.78	8.19	3
3.95	3.2	3.6	2BK40	—	—	—	3X529	3X530	3X444	3X531	20.18	10.57	9.18	8.56	3 1/2
4.25	3.5	3.9	2BK45	—	—	—	3X532	3X533	3X445	3X449	21.74	11.38	9.89	9.22	3 1/2
4.45	3.7	4.1	2BK47	—	—	—	3X534	3X535	3X446	3X536	22.00	11.52	10.00	9.33	4
4.75	4.0	4.4	2BK50	—	—	—	3X537	3X538	3X447	3X539	23.32	12.21	10.60	9.89	4
4.95	4.2	4.6	2BK52	—	—	—	3X540	3X541	3X448	3X422	23.94	12.53	10.89	10.15	4 1/2

ORDER OD AND PD REQUIRED. SELECT MALLEABLE SPLIT-TAPER H BUSHING LISTED BELOW TO OBTAIN DESIRED BORE SIZE.

OD Inches	Pitch Dia.		Mfrs. Model	Stock No.	Retail	—Sheaves Priced Less Bushings—			Shpg. Wt.
	A Belt	B Belt				Each	Lots 10 Asst'd.	Lots 25 Asst'd.	
3.35	2.6"	3.0"	2BK32H	3X550	\$19.78	\$10.36	\$8.99	\$8.39	2
3.55	2.8	3.2	2BK34H	3X551	19.92	10.43	9.06	8.45	2 1/2
3.75	3.0	3.4	2BK36H	3X552	20.32	10.64	9.24	8.62	2 1/2
3.95	3.2	3.6	2BK40H	3X553	20.52	10.74	9.33	8.70	2 1/2
4.25	3.5	3.9	2BK45H	3X554	21.04	11.02	9.57	8.92	3 1/4
4.45	3.7	4.1	2BK47H	3X555	23.18	12.14	10.54	9.83	3
4.75	4.0	4.4	2BK50H	3X556	23.62	12.37	10.74	10.01	3
4.95	4.2	4.6	2BK52H	3X557	24.22	12.68	11.01	10.27	3 3/4
5.25	4.5	4.9	2BK55H	3X558	26.22	13.73	11.92	11.12	4
5.45	4.7	5.1	2BK57H	3X559	26.66	13.96	12.12	11.30	4 1/4
5.75	5.0	5.4	2BK60H	3X560	27.26	14.27	12.40	11.56	4 1/2
5.95	5.2	5.6	2BK62H	3X561	27.62	14.46	12.56	11.71	4 1/2
6.25	5.5	5.9	2BK65H	3X562	29.78	15.59	13.54	12.63	4 3/4
6.45	5.7	6.1	2BK67H	3X563	30.30	15.87	13.77	12.85	5
6.75	6.0	6.4	2BK70H	3X564	31.12	16.29	14.15	13.19	5 1/4
7.75	7.0	7.4	2BK80H	3X565	36.14	18.92	16.43	15.32	7
8.75	8.0	8.4	2BK90H	3X566	36.82	19.28	16.74	15.61	7 1/2
9.75	9.0	9.4	2BK100H	3X567	42.74	22.38	19.43	18.12	8 1/2
10.75	10.0	10.4	2BK110H	3X568	46.30	24.24	21.05	19.63	9 1/4
11.75	11.0	11.4	2BK120H	3X569	52.88	27.69	24.04	22.42	11
12.75	12.0	12.4	2BK130H	3X570	56.82	29.75	25.84	24.09	14
13.75	13.0	13.4	2BK140H	3X571	64.30	33.67	29.24	27.26	15
15.75	15.0	15.4	2BK160H	1W962	67.46	35.32	30.67	28.60	18
18.75	18.0	18.4	2BK190H	1W963	75.70	39.64	34.42	32.10	22

MALLEABLE SPLIT-TAPER H BUSHINGS

For Bushed Bore Type Sheaves, One or Two Grooves

Browning

All bushings are designed for standard 1 1/4" long keyway. Width and depth dimensions are dependent on bore size of the bushing used. Key not included except where noted. Browning brand. Shpg. wt. 12 oz.

Order by Stock No. In table at right.	For Bushing Bore Size Specify Stock No.		Bushing Bore		Keyway Size	
	Bore	Stock No.	Bore	Stock No.	Wide	Deep
Retail.....\$4.20	5/8"	3X572	1 1/8"	3X577	3/16"	3/32"
Each.....\$2.20	3/4"	3X573	1 1/16"	3X578	1/8"	1/16"
Lots 10.....\$1.91	7/8"	3X574	1 1/4"	3X579†	1/4"	1/8"
Lots 25.....\$1.78	1 1/16"	3X575	1 3/8"	3X580†	3/8"	1/4"
	1	3X576	1 1/2"	3X581†	1 1/16"	1/16"

be assorted for quantity prices. (†) Key provided with bushing.

Quantity Prices on Motors for OEM Production Use — Fast Shipments

Quantity motor prices are available on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs

can be shipped from Grainger's stock as needed. Carloads kept in Chicago Distribution Center. Ask your Grainger salesman.

SEE WARRANTY INFORMATION ON PAGE 684

THREE-GROOVE CAST-IRON SHEAVES



3.75 to 18.75" OD Sizes. Statically Balanced; Bushings from 1 1/8 to 1 1/4" Bore

Browning

Heavy-duty, three-groove, cast-iron sheaves for 4L (A) and 5L (B) section FHP and multiple A and B section belt drives. Close-grain, cast-iron, accurately machined and statically balanced. Used with Browning malleable split taper bushing (listed below) for bores 1 1/8 thru 1 1/4" dia. Bushing is keyed to both shaft and hub; double-split taper with key and capscrews. External bushing key provides extra strength for high horsepower applications. Easily mounted or removed. Choose 3-groove sheave, then select proper bushing below, based on bore size required. Sheaves and bushings are individually cartoned. Browning brand

OD Inches	Pitch Diameter— A Belt	Pitch Diameter— B Belt	Mfrs. Model— Sheave	Mfrs. Model— Bushing	Stock No.	Sheave Less Bushing— Retail Each	Sheave Less Bushing— Lots 3	Shpg. Wt.
3.75	3.0"	3.4"	3TB34	P2	3X477	\$25.60	\$13.15	\$12.15
3.95	3.2	3.6	3TB36	P2	3X484	25.80	13.28	12.27
4.15	3.4	3.8	3TB38	P1	3X478	26.60	13.67	12.64
4.35	3.6	4.0	3TB40	P1	3X485	26.80	13.80	12.76
4.55	3.8	4.2	3TB42	P1	3X479	27.20	13.97	12.91
4.75	4.0	4.4	3TB44	P1	3X486	28.00	14.39	13.30
4.95	4.2	4.6	3TB46	P1	3X487	28.60	15.87	14.67
5.15	4.4	4.8	3TB48	P1	3X488	29.40	16.31	15.08
5.35	4.6	5.0	3TB50	P1	3X489	30.20	16.75	15.48
5.55	4.8	5.2	3TB52	P1	3X490	31.40	17.41	16.09
5.75	5.0	5.4	3B64Q	Q1	3X491	26.00	14.72	13.61
5.95	5.2	5.6	3B66Q	Q1	3X492	27.20	15.41	14.24
6.15	5.4	5.8	3B68Q	Q1	3X453	28.80	16.30	15.06
6.35	5.6	6.0	3B60Q	Q1	3X454	29.80	16.84	15.56
6.55	5.8	6.2	3B62Q	Q1	3X455	31.00	17.56	16.23
6.75	6.0	6.4	3B64Q	Q1	3X456	32.60	18.44	17.05
6.95	6.2	6.6	3B66Q	Q1	3X457	33.60	19.02	17.58
7.15	6.4	6.8	3B68Q	Q1	3X656	35.20	19.53	18.07
7.35	6.6	7.0	3TB70	Q1	3X458	37.00	20.95	19.36
7.75	7.0	7.4	3TB74	Q1	3X459	39.80	22.48	20.77
8.35	7.6	8.0	3TB80	Q1	3X460	41.60	23.52	21.74
8.95	8.2	8.6	3TB86	Q1	3X461	46.60	26.38	24.38
9.35	8.6	9.0	3TB90	Q1	3X462	47.60	27.21	25.15
9.75	9.0	9.4	3TB94	Q1	3X463	50.00	28.13	26.00
11.35	10.6	11.0	3TB110	Q1	3X464	59.80	33.57	31.03
12.75	12.0	12.4	3TB124	Q1	3X616	65.20	38.93	35.98
13.95	13.2	13.6	3TB136	Q1	3X617	71.20	42.46	39.24
15.75	15.0	15.4	3TB154	Q1	3X618	82.20	48.89	45.18
18.75	18.0	18.4	3TB184	Q1	3X619	100.80	60.00	55.45



Browning

MALLEABLE SPLIT-TAPER BUSHINGS

For Use with 3-Groove Sheaves Listed in Table Above

For Sheave OD	Mfrs. Model	For Bushing Bore Size Specify	Stock No.	1 1/8"	1 1/4"	1 1/2"	1 3/4"	2"	Retail	Each	Lots 3	Shpg. Wt.
3.75-3.95"	P2	3X480	—	3X481	—	—	—	—	\$7.00	\$3.13	\$2.89	1 1/4
4.15-6.55	P1	3X483	—	3X482	—	—	—	—	6.40	2.84	2.62	1 1/4
5.75-18.75	Q1	3X465	3X466	3X467	3X468	3X469	3X470	—	12.80	5.75	5.32	4



Congress 3 & 4 STEP DIE-CAST SHEAVES

For A or O type V belts. 3-step has 4, 3 and 2" diameter; 4-step has 4, 3 3/8, 2 1/2 and 2" diameter. For use with 5/8" diameter shaft, or use on 1/2" diameter shaft with reducing bushing included. Pitch dia. 0.15" less than outside. Shpg. wt. 1 1/2 lbs. Congress brand.

	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
3	SCA43	4X559	\$4.39	\$2.4	
4	SCA44	4X560	5.65	3.1	

FRACTIONAL HP MOTOR SHAFT ARBORS

Accepts Grinding, Finishing & Buffing Wheels with 1/2" Bore. Dayton Brand

\$1.60

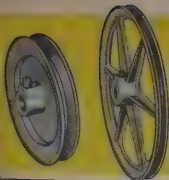
Dayton

Made from solid bar stock. Accepts 1/2" bore grinding, finishing and buffing wheels up to 1" wide

maximum. Threaded shafts with nut and set screws. 3 1/2" long. Left hand thread for clockwise rotation facing shaft.

Shaft Dia.	Fit	Thread	Stock No.	Retail	Each	Shpg. Wt.
1/2"	1/2"	20 RH	1X343	\$2.66	\$1.60	7 oz
5/8"	1/2"	20 RH	1X910	2.66	1.60	7 oz
1/2"	1/2"	20 LH	1X354	2.66	1.60	7 oz
5/8"	1/2"	20 LH	1X911	2.66	1.60	7 oz

3/2 to 12" steel sheave pullers—See Index under Pulley Pullers



Congress DIE-CAST SHEAVES

1 1/2 to 14" OD Sizes. Machine Grooved

1 1/2" OD
73c
Lots 10

Top quality, die-cast O and A section sheaves. Precision cast, machine grooved, balanced and individually tested. Each pulley in labeled box. Hollow head set screw. 3/8" and 1/2" bores have no keyway; 5/8", 1" and 1 1/4" bore sheaves have keyway on 2" OD and larger. 5" OD sheaves and smaller are solid type, 6" OD and larger are spoke construction. For 7/8" shafts, use No. 2X653 split bushing listed below. Individually boxed. Congress brand.

OD Inches	A Belt Pitch Dia. (1)	Mfrs. Model	FOR BORE SIZE SPECIFY STOCK NO.							Retail		Lots 10	Shpg. Wt.
			3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"				
1 1/2	1.35"	1 1/2 A	3X891	3X892	3X893	—	—	—	—	\$1.33	\$0.80	\$0.73	3 oz.
2	1.85	2 A	3X894	3X895	3X896	3X897	—	—	—	1.38	.83	.76	4 oz.
2 1/4	2.10	2 1/4 A	—	3X898	3X899	—	—	—	—	1.44	.86	.79	4 oz.
2 1/2	2.35	2 1/2 A	—	3X900	3X901	3X902	—	—	—	1.55	.93	.85	4 oz.
3	2.85	3 A	—	3X903	3X904	3X905	—	—	—	1.71	1.03	.94	8 oz.
3 1/2	3.35	3 1/2 A	—	3X906	3X907	3X908	—	—	—	2.04	1.22	1.12	8 oz.
4	3.85	4 A	—	3X909	3X910	3X911	—	—	—	2.27	1.36	1.25	8 oz.
4 1/2	4.35	4 1/2 A	—	3X912	3X913	3X914	—	—	—	2.71	1.63	1.49	11 oz.
5	4.85	5 A	—	3X915	3X916	3X917	—	—	—	2.96	1.78	1.63	12 oz.
6	5.85	6 A	—	3X918	3X919	3X920	3X921(*)	—	—	3.57	2.14	1.96	1
7	6.85	7 A	—	3X922	3X923	3X924	3X925(*)	—	—	4.25	2.55	2.34	1
8	7.85	8 A	—	3X926	3X927	3X928	3X929(*)	—	—	4.75	2.85	2.61	1
9	8.85	9 A	—	3X930	3X931	3X932	3X933(*)	—	—	6.08	3.65	3.34	1
10	9.85	10 A	—	3X934	3X935	3X936	3X937(*)	—	—	7.29	4.37	4.01	2
12	11.85	12 A	—	3X938	3X939	3X940	3X941(*)	—	—	8.90	5.34	4.90	2
14	13.85	14 A	—	—	—	3X942	3X943(*)	—	—	11.49	6.89	6.32	2
14	13.85	14 A	—	—	—	—	—	3X944	—	14.08	8.45	7.74	2

Pitch diameter for O belts is 0.3" less than pitch diameter shown for A belts.

1 to 7/8" SPLIT STEEL BUSHING. For adapting 1" bore sheaves to 7/8" diameter shafts. Split type for sheave keyway. 1 1/4" long. Shpg. wt. 6 oz. No. 2X653. Retail \$0.41. Each 25c; lots 10.....23c

VARIABLE-PITCH CAST-IRON SHEAVES

2.5 to 6.55" Diameter with 1/2 to 1 1/4" Bores. For O, A and B Belts



Browning

\$2.66

2 1/2" OD
Lots 10

Variable-pitch sheaves permit speed variations of approximately 30%. Ideal for use on motors for blowers, air conditioners, stokers, etc., where speed must be set exactly. Screw adjustment. Socket set screws. Keyways on all except 1/2" bore sizes. Individually cartoned. Browning brand.

SINGLE-GROOVE VARIABLE-PITCH SHEAVES FOR O, A and B SECTION DRIVES

Pitch O-Belt	Pitch A-Belt	Pitch B-Belt	Mfr. Model	FOR BORE SIZE SPECIFY STOCK NO.							Retail		Lots Asst'd.	Shpg. WT.
				1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"				
1.6-2.4	—	—	1VL25	3X498	3X497	—	—	—	—	—	\$5.86	\$3.07	\$2.66	9 oz.
1.8-2.7	—	—	1VL30	3X498	3X499	—	—	—	—	—	6.10	3.19	2.77	1
1.7-2.5	1.9-2.9	2.4-3.2	1VL34	3X262	3X263	3X273	—	—	—	—	6.10	3.19	2.77	1
2.3-3.1	2.4-3.4	2.7-3.7	1VL40	3X274	3X264	3X265	—	—	—	—	7.50	3.93	3.41	1 1/4
2.3-3.1	2.4-3.4	2.7-3.7	1VL40	—	—	—	3X500	—	—	—	8.04	4.21	3.66	1 1/4
2.7-3.5	2.8-3.8	3.1-4.1	1VL44	3X275	3X276	3X266	3X501	—	—	—	9.50	4.97	4.32	1 1/4
3.3-4.1	3.4-4.4	3.7-4.7	1VM50	—	3X438	3X502	3X503	—	—	—	15.52	8.13	7.06	2 1/2
3.9-4.7	4.0-5.0	4.3-5.3	1VP56	—	3X494	3X504	—	—	—	—	22.70	11.89	10.32	3 1/2
3.9-4.7	4.0-5.0	4.3-5.3	1VP56	—	—	—	3X505	—	—	—	29.30	15.34	13.32	4 1/2
4.5-5.3	4.6-5.6	4.9-5.9	1VP62	—	3X495	3X506	3X507	—	—	—	35.84	18.77	16.30	6

DOUBLE-GROOVE VARIABLE-PITCH SHEAVES FOR O, A and B SECTION DRIVES

Pitch O-Belt	Pitch A-Belt	Pitch B-Belt	Mfr. Model	Bore Size	Mfr. Model	Stock No.	Retail	Each	Lots 10 Asst'd.	Shpg. Wt.
1.9-2.7	2.0-3.0	2.5-3.3	2VP36	—	3X508	—	3X509	—	—	—
2.5-3.3	2.6-3.6	2.9-3.9	2VP42	—	3X417	—	3X510	—	\$28.12	\$14.72
3.3-4.1	3.4-4.4	3.7-4.7	2VP50	—	3X436	—	3X398	3X437	3X511	\$34.94
3.9-4.7	4.0-5.0	4.3-5.3	2VP56	—	—	—	3X399	—	—	\$37.52
4.5-5.3	4.6-5.6	4.9-5.9	2VP62	—	—	—	3X400	—	—	\$43.72
5.1-5.9	5.2-6.2	5.5-6.5	2VP68	—	—	—	3X401	3X512	—	\$59.24
							3X402	3X403	—	\$64.48



Congress VARIABLE-PITCH DIE-CAST SHEAVES

3 1/4" Outside Diameter, 1/2 & 5/8" Bores. For A and B Section Belts

\$2.21
Lots 10

Similar to cast-iron sheaves above. Approximately 30% speed variations. Use on motor-driven equipment where speed must be set exactly. Screw adjustment. Socket set screws. Keyway on No. 1X448. Congress brand.

OD Inches	Pitch A-Belt	Pitch B-Belt	Bore Size	Mfr. Model	Stock No.	Retail	Each	Lots 10 Asst'd.	Shpg. Wt.
3 1/4	1.8-2.9"	1.9-3.2"	1/2"	VP325-60x1 1/2"	1X447	\$4.75	\$2.33	\$2.21	9 oz.
3 1/4	1.8-2.9	1.9-3.2	5/8"	VP325-60x5/8"	1X448	4.75	2.33	2.21	12 oz.

SEE WARRANTY INFORMATION ON PAGE 684

DEMCO FHP V-BELTS FOR STANDARD DUTY

3L, 4L & 5L Widths. Lengths from 15 to 100". Used for Most Standard Drive Requirements



Built for trouble-free, long-life service. High-tensacity rayon cords assure great strength with extreme flexibility. Bias-cut fabric, rubber-impregnated cover. Oil and heat resistant. Demco brand. Made in USA.

QUANTITY PRICES QUOTED ON REQUEST

3L V-BELTS 3/8" Top width by 7/32" Thick. (Inside length 1.3" less than outside).

Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd
3L150	15"	\$2.16	\$1.94	3L270	27"	\$1.12	\$1.00	3L390	39"	\$1.36	\$1.22	3L510	51"	\$1.62	\$1.45
3L160	16	2.16	1.94	3L280	28	1.13	1.02	3L400	40	1.39	1.25	3L520	52	1.64	1.47
3L170	17	1.08	.97	3L290	29	1.15	1.04	3L410	41	1.42	1.27	3L530	53	1.65	1.49
3L180	18	1.08	.97	3L300	30	1.17	1.05	3L420	42	1.43	1.29	3L540	54	1.67	1.50
3L190	19	1.08	.97	3L310	31	1.18	1.06	3L430	43	1.45	1.31	3L550	55	1.69	1.52
3L200	20	1.08	.97	3L320	32	1.20	1.08	3L440	44	1.47	1.32	3L560	56	1.71	1.54
3L210	21	1.08	.97	3L330	33	1.22	1.09	3L450	45	1.50	1.35	3L570	57	1.73	1.55
3L220	22	1.08	.97	3L340	34	1.23	1.11	3L460	46	1.52	1.36	3L580	58	1.75	1.57
3L230	23	1.08	.97	3L350	35	1.26	1.13	3L470	47	1.54	1.39	3L590	59	1.76	1.59
3L240	24	1.08	.97	3L360	36	1.28	1.15	3L480	48	1.56	1.41	3L600	60	1.78	1.60
3L250	25	1.08	.97	3L370	37	1.31	1.18	3L490	49	1.58	1.42	3L610	61	1.81	1.63
3L260	26	1.10	.99	3L380	38	1.33	1.20	3L500	50	1.60	1.44	—	—	—	—
Average shpg. wt. 3 oz.				Average shpg. wt. 3 oz.				Average shpg. wt. 4 oz.				Average shpg. wt. 6 oz.			

4L V-BELTS 1/2" Top Width by 5/16" Thick. (Inside length 2" less than outside).

Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd
4L170	17"	\$1.13	\$1.02	4L360	36"	\$1.35	\$1.22	4L550	55"	\$1.77	\$1.59	4L740	74"	\$2.22	\$2.00
4L180	18	1.13	1.02	4L370	37	1.37	1.23	4L560	56	1.80	1.62	4L750	75	2.24	2.01
4L190	19	1.13	1.02	4L380	38	1.40	1.26	4L570	57	1.82	1.64	4L760	76	2.26	2.03
4L200	20	1.13	1.02	4L390	39	1.43	1.29	4L580	58	1.84	1.65	4L770	77	2.29	2.04
4L210	21	1.13	1.02	4L400	40	1.46	1.32	4L590	59	1.86	1.67	4L780	78	2.32	2.09
4L220	22	1.13	1.02	4L410	41	1.49	1.34	4L600	60	1.88	1.69	4L790	79	2.36	2.13
4L230	23	1.13	1.02	4L420	42	1.51	1.36	4L610	61	1.90	1.71	4L800	80	2.39	2.15
4L240	24	1.13	1.02	4L430	43	1.54	1.38	4L620	62	1.92	1.73	4L820	82	2.47	2.22
4L250	25	1.13	1.02	4L440	44	1.57	1.41	4L630	63	1.95	1.75	4L840	84	2.54	2.25
4L260	26	1.15	1.04	4L450	45	1.60	1.44	4L640	64	1.97	1.77	4L860	86	2.61	2.35
4L270	27	1.17	1.05	4L460	46	1.62	1.45	4L650	65	1.99	1.79	4L880	88	2.69	2.42
4L280	28	1.19	1.07	4L470	47	1.64	1.47	4L660	66	2.01	1.81	4L900	90	2.76	2.44
4L290	29	1.21	1.09	4L480	48	1.65	1.48	4L670	67	2.03	1.82	4L920	92	2.83	2.53
4L300	30	1.22	1.10	4L490	49	1.66	1.50	4L680	68	2.06	1.85	4L940	94	2.90	2.61
4L310	31	1.24	1.12	4L500	50	1.68	1.51	4L690	69	2.08	1.87	4L960	96	2.96	2.64
4L320	32	1.26	1.13	4L510	51	1.70	1.53	4L700	70	2.10	1.89	4L980	98	3.02	2.71
4L330	33	1.28	1.15	4L520	52	1.72	1.55	4L710	71	2.13	1.93	3X543100	3.08	2.77	—
4L340	34	1.31	1.18	4L530	53	1.74	1.56	4L720	72	2.19	1.97	—	—	—	—
4L350	35	1.33	1.19	4L540	54	1.75	1.58	4L730	73	2.21	1.99	—	—	—	—
Average shpg. wt. 4 oz.				Average shpg. wt. 8 oz.				Average shpg. wt. 12 oz.				Average shpg. wt. 14 oz.			

5L V-BELTS 21/32" Top Width by 3/8" Thick. (Inside length 3" less than outside).

Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd	Stock No.	Outside Length	Each	Lots 10 Asst'd
5L230	23"	\$1.39	\$1.25	5L400	40"	\$1.96	\$1.76	5L570	57"	\$2.63	\$2.37	5L740	74"	\$3.14	\$2.81
5L240	24	1.39	1.25	5L410	41	2.01	1.81	5L580	58	2.65	2.38	5L750	75	3.17	2.84
5L250	25	1.39	1.25	5L420	42	2.05	1.85	5L590	59	2.67	2.40	5L760	76	3.21	2.88
5L260	26	1.43	1.28	5L430	43	2.10	1.89	5L600	60	2.69	2.42	5L770	77	3.25	2.92
5L270	27	1.46	1.32	5L440	44	2.15	1.93	5L610	61	2.71	2.43	5L780	78	3.29	2.94
5L280	28	1.49	1.34	5L450	45	2.19	1.97	5L620	62	2.72	2.45	5L790	79	3.34	3.00
5L290	29	1.53	1.37	5L460	46	2.24	2.01	5L630	63	2.74	2.47	5L800	80	3.38	3.04
5L300	30	1.55	1.40	5L470	47	2.29	2.06	5L640	64	2.78	2.50	5L820	82	3.47	3.13
5L310	31	1.59	1.43	5L480	48	2.33	2.10	5L650	65	2.82	2.53	5L840	84	3.56	3.21
5L320	32	1.63	1.46	5L490	49	2.38	2.14	5L660	66	2.85	2.56	5L860	86	3.68	3.33
5L330	33	1.66	1.50	5L500	50	2.41	2.17	5L670	67	2.89	2.60	5L880	88	3.75	3.37
5L340	34	1.70	1.53	5L510	51	2.45	2.20	5L680	68	2.92	2.63	5L900	90	3.82	3.44
5L350	35	1.73	1.55	5L520	52	2.49	2.24	5L690	69	2.96	2.66	5L920	92	3.89	3.51
5L360	36	1.76	1.59	5L530	53	2.52	2.27	5L700	70	2.99	2.69	5L940	94	3.99	3.58
5L370	37	1.79	1.61	5L540	54	2.56	2.30	5L710	71	3.02	2.71	5L960	96	4.11	3.71
5L380	38	1.83	1.64	5L550	55	2.59	2.33	5L720	72	3.05	2.75	5L980	98	4.20	3.71
5L390	39	1.88	1.69	5L560	56	2.60	2.34	5L730	73	3.10	2.79	3X544100	4.30	3.84	—
Average shpg. wt. 8 oz.				Average shpg. wt. 12 oz.				Average shpg. wt. 1 lb.				Average shpg. wt. 1 1/2 lb.			

Orders for 10 or more Demco Belts (may be assorted between FHP and Industrial belts) will be shipped prepaid. Belts may be assorted for the quantity prices.

DEMCO A & B SECTION INDUSTRIAL V-BELTS



Standard-length belts from 33" to 161" are built for heavy load-carrying applications on short center, small pulley drives. Endless high-tensile cords, cushioned in insulating gum, assure long flex life and strength. Oil and heat resistant, static conducting. Made in USA.

QUANTITY PRICES QUOTED ON REQUEST

A SECTION MULTIPLE V-BELTS 1/2" Top Width by 5/16" Thick

IMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.	RMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.	RMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.
A31	3X654	33"	\$1.95	\$1.84	A55	3X622	57"	\$2.77	\$2.62	A80	3X629	82"	\$3.76	\$3.55
A35	3X620	37"	2.09	1.97	A58	3X547	60	2.87	2.71	A85	3X630	87	4.04	3.82
A38	3X545	40	2.23	2.11	A60	3X623	62	2.93	2.76	A90	3X631	92	4.32	4.08
A42	3X621	44	2.40	2.26	A62	3X624	64	3.00	2.83	A96	3X632	98	4.60	4.34
A46	3X471	48	2.51	2.37	A64	3X625	66	3.07	2.90	A105	3X351	107	5.02	4.74
A48	3X472	50	2.56	2.42	A68	3X626	70	3.21	3.03	A112	3X352	114	5.58	5.26
A50	3X546	52	2.62	2.47	A71	3X627	73	3.37	3.18	A120	3X371	122	5.99	5.66
A51	3X473	53	2.65	2.50	A75	3X628	77	3.49	3.29	A128	3X633	130	6.41	6.05
Average shpg. wt. 4 oz.					Average shpg. wt. 7 oz.					Average shpg. wt. 1 lb.				

B SECTION MULTIPLE V-BELTS 21/32" Top Width by 13/32" Thick

IMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.	RMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.	RMA* Belt No.	Stock No.	Nominal Outside Length	Each	Lots 10 Asst'd.
B35	3X634	38"	\$2.79	\$2.63	B62	3X613	65"	\$4.29	\$4.05	B85	3X647	88"	\$5.72	\$5.40
B38	3X635	41	3.07	2.90	B64	3X614	67	4.41	4.16	B90	3X648	93	5.99	5.66
B42	3X636	45	3.35	3.16	B66	3X640	69	4.52	4.26	B97	3X649	100	6.55	6.19
B46	3X637	49	3.62	3.42	B68	3X641	71	4.60	4.34	B105	3X650	108	6.97	6.58
B48	3X474	51	3.74	3.53	B71	3X642	74	4.78	4.51	B112	3X353	115	7.53	7.11
B50	3X475	53	3.85	3.63	B72	3X615	75	4.84	4.57	B120	3X354	123	7.95	7.50
B51	3X638	54	3.90	3.68	B75	3X643	78	5.02	4.74	B128	3X372	131	8.50	8.03
B53	3X611	56	3.97	3.75	B78	3X644	81	5.23	4.94	B144	3X651	147	9.62	9.08
B55	3X612	58	4.04	3.82	B81	3X645	84	5.44	5.13	B158	3X374	161	10.46	9.87
B60	3X639	63	4.18	3.95	B83	3X646	86	5.62	5.30	—	—	—	—	—
Average shpg. wt. 7 oz.					Average shpg. wt. 13 oz.					Average shpg. wt. 1 1/2 lb.				

(*) Manufactured to tolerances set by the RMA (Rubber Manufacturers' Association).

Orders for 10 or more Demco V-belts (may be assorted between Industrial and FHP) will be shipped prepaid.

REPLACEMENT POLY V-BELTS FOR COMPRESSORS

Six-rib belt for Speedaire compressors listed and many other popular brand air compressors. Static conducting, high tensile strength, oil and heat resistant. Demco brand.

SIZE Long Wide	FITS SPEEDAIRE COMPRESSORS				RMA Belt No.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
49x3/4"	3Z323	3Z395	3Z406	3Z419	490J6	3X542	\$5.04	\$3.36	\$2.80	1 oz.
	3Z355	3Z396	3Z407	3Z432						
46x3/4"	3Z420	3Z422	3Z424	3Z428	460J6	3X655	4.95	3.30	2.75	1 oz.
	3Z421	3Z423	3Z425							

V-BELT MEASURING GAUGE

Accurately Measures FHP V-Belts 14" to 80"

FREE ON REQUEST

With \$100.00 Order
Of V-Belts

Lightweight aluminum gauge with easy-slide adjustment. White numerals on red background for quick identification. Holes at each end for hanging when not in use. Gives 2L, 3L, 4L and 5L cross section dimensions. 3 3/4" L x 4 1/2" W. Shpg. wt. 2 lbs.

No. 2X909, V-Belt Measuring Gauge. Retail \$16.41. Each.....\$11.78

FREE ON REQUEST

with \$100.00 order of V-belts.

DEMCO V-BELT WALL RACK

10-Hook Self-Service Display & Storage



RACK FREE ON REQUEST

With \$50.00 V-Belt Order

Convenient display board made of sturdy wood. Holds up to 120, 1/2" wide V-belts. White lettering against red background. Nail or screw to wall. 4 ft. wide. Hooks extend approximately 7". Belts not included. Shpg. wt. 3 1/2 lbs.

No. 2X907, V-Belt Rack. Retail \$7.91. Each.....\$5.92

FREE ON REQUEST WITH \$50.00 V-BELT ORDER

SEE WARRANTY INFORMATION ON PAGE 684



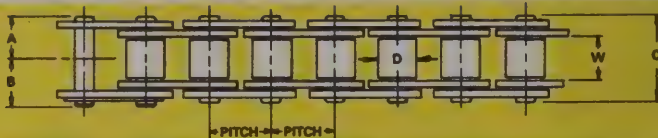
\$9.95 No. 2W094
10 Ft., Lots 5

MADE IN USA

Dayton roller chain is designed and carefully made to meet all ANSI standards for transmitting power on motor drives. Special lubricating methods and programmed preloading insures minimum break-in wear, extends useful service life. Copper-plated pin ends make chain easy to

- Seven ANSI sizes available
- For use with standard sprockets
- Factory prelubricated, positive pitch control for exceptionally long service life
- Meets all American National Standards Institute (ANSI) requirements

take apart for repairs. Fully interchangeable with other ANSI roller chain. Each length includes one connecting link. See below for additional connecting links, and for offset and roller links. Priced and sold in 10 and 100 foot lengths. Dayton brand.



RIVETED ROLLER CHAIN SPECIFICATIONS

ANSI Size	Pitch	Roller/Bushing Width W	Roller/Bushing Dia. D	Rivet End To Center Line A	Connecting End To Center Line B	Overall Width C	Average Ultimate Strength in Lbs.	Min. Ultimate Strength in Lbs. (ANSI Standard)
35	3/8"	3/8"	.200"	15/64"	5/16"	15/16"	2,100	1,758
40	1/2"	1/2"	.312	21/64"	15/32"	21/32"	3,700	3,125
41	1/2"	1/2"	.306	9/32"	21/64"	35/64"	2,000	1,500
50	5/8"	5/8"	.400	15/32"	21/32"	19/16"	6,100	4,882
60	3/4"	3/4"	.469	1 1/32"	19/16"	1	8,500	7,032
80	1"	1"	.625	1 5/16"	47/64"	1 1/8"	14,500	12,500
100	1 1/4"	1 1/4"	.750	49/64"	29/32"	1 11/16"	24,000	19,530

RIVETED ROLLER CHAIN PRICES—10 and 100 FT. LENGTHS

ANSI SIZE	Stock No.	10 FT. CHAIN LENGTH*				Stock No.	100 FT. CHAIN LENGTH*			
		Retail	Each	Lots 5	Shpg. Wt.		Retail	Each	Lots 5	Shpg. Wt.
35	2W092	\$26.30	\$14.65	\$13.91	2 1/2	2W192	\$263.00	\$146.50	\$139.10	24
40	2W093	36.00	20.05	19.04	4 1/4	2W193	360.00	200.50	190.40	46
41	2W094	18.80	10.47	9.95	2 3/4	2W194	188.00	104.70	99.50	30
50	2W095	43.90	24.45	23.22	7 1/4	2W195	439.00	244.50	232.20	74
60	2W096	56.40	31.41	29.84	10 1/2	3W098	564.00	314.10	298.40	89
80	2W221	105.40	58.71	55.76	17	—	—	—	—	—
100	2W222	159.30	92.71	88.08	26	—	—	—	—	—

INDIVIDUAL REPAIR LINKS—Priced & Sold in Packages of 5 or 1



CONNECTING LINK*

Used to assemble chain strands with an even number of pitches. Average Shpg. wt. 2 oz.



OFFSET LINK

Used to assemble chain strands with an odd number of pitches. Avg. wt. 2 oz.



ROLLER LINK

Used for replacement of damaged rollers. Average Shpg. wt. 2 oz.

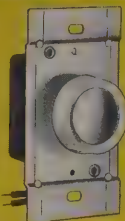
ANSI Size	Stock No.	Retail	Each	Lots 5	Stock No.	Retail	Each	Lots 5	Stock No.	Retail	Each	Lots 5		
PER PACKAGE OF 5					PER PACKAGE OF 5					PER PACKAGE OF 5				
35	5X290	\$2.06	\$1.15	\$1.09	5X291	\$4.70	\$2.62	\$2.49	5X292	\$1.44	\$0.80	\$0.76		
40	5X293	2.19	1.22	1.16	5X294	6.32	3.52	3.34	5X295	1.55	.86	.82		
41	5X296	1.37	.76	.72	5X297	4.92	2.74	2.60	5X298	1.37	.76	.72		
50	5X299	2.46	1.37	1.30	5X300	7.23	4.03	3.82	5X301	1.88	1.05	.99		
60	5X302	3.12	1.74	1.65	5X303	9.09	5.06	4.81	5X304	2.46	1.37	1.30		
PER PACKAGE OF 1					PER PACKAGE OF 1					PER PACKAGE OF 1				
80	6X529	1.14	.63	.60	6X530	3.56	1.98	1.88	6X531	1.43	.80	.76		
100	6X532	1.86	1.10	1.04	6X533	5.41	3.15	2.99	6X534	2.63	1.53	1.45		

(*) One connecting link included for each 10 ft. length of chain.

Dayton

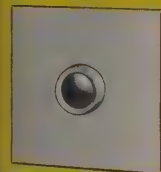
FULL-RANGE ELECTRONIC LIGHT DIMMER

For Dining Room, Bedroom, TV Room, Etc., Lighting Effects in Stores, Restaurants, Etc.
Replaces Existing Wall Switch. Controls up to 1000W Incandescent Lighting. UL Listed



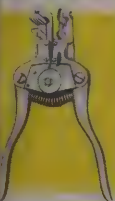
No. 4X603 Turn of dial varies incandescent lighting through the full range of brightness from full-on to off. Use only the electricity needed and save energy. Adjust lighting to best level for reading, dining, night-lighting, etc. For stores, office lobbies, hospitals and other locations to create special lighting effects. 600W units have Push-On/Push-Off switch. Turned on and off by touching dial without disturbing light level setting. Uses existing wall switch-plate. 1000 W. unit has rotary On-Off switch and comes equipped with smooth (no screws) white enameled faceplate. Easy to install; replaces conventional and 3-way wall switches. Instructions included. UL listed. For incandescent lighting only, not for fluorescent.

Type	Stock No.	Retail	Each	Lots 8	Shpg. Wt.
600 W. Conventional	4X603	\$10.75	\$4.37	\$4.12	6 oz.
600 W. 3-Way	4X852	18.30	9.82	8.76	6 oz.
1000 W. Conventional	4X853	43.15	27.07	24.98	10 oz.



1000 Watt

AUTOMATIC WIRE STRIPPER



Strips 10 to 18 Gauge Wire
\$8.32 Precision made Speed - O - Matic wire stripper with fully automatic Delayed Return Action. Strips 10 to 18 gauge wire cleanly and quickly. Will not crush, nick or damage finest wire. Narrow easy-grip handles. Interchangeable blades. G. C. Electronics brand (766B). Shpg. wt. 14 oz.

4X235. Retail \$13.17. Each.....\$8.32

McGILL LEVOLIER SWITCH



Pull-type fixture switch. "T" rated, 6A, 125V; 3A, 250V. 6" wire leads. SP-ST. 15/32" dia. stem. Mounts in panels up to 7/32" thick. 1/2 x 1 1/2". 6 ft. string. UL listed. 2 oz.

2X373. Retail \$2.40. Each \$1.68; lots 10, \$1.60

TOUCH-BUTTON SWITCH



\$1.10
Lots 10

Replaces toggle switches. Turns lights and appliances on and off with gentle touch of single button. Fits standard outlet box. Silver switch contacts rated 15A, 120/240VAC. Handles 12A motor loads. Mechanism enclosed in plastic case. Ivory button. UL listed. Rodale brand. Shpg. wt. 3 oz.

No. 2X692. Retail \$1.50. Each \$1.25; lots 10, \$1.10

ELECTRICAL CIRCUIT TESTER



\$2.09
Lots 12

Battery powered circuit tester. Tests circuit continuity (with power off), switches, fuses, locates grounded wires with maximum safety. 46" test lead, 2 Penlight batteries, No. 14 lamp. 6 1/2" long. Burnsworth brand. Shpg. wt. 4 oz.

No. 2X917. Retail \$3.98. Each \$2.45; lots 12, \$2.09

MOTOR-SWITCH MOUNTING BOXES

For Use on NEMA 48 Frame Dayton, General Electric and Westinghouse Motors; NEMA 56 Frame 1/8 to 3/4 HP Westinghouse Motors; and NEMA 56 Frame 1/8 to 1/3 HP General Electric Motors. Gray Enamel Finish



— Fits Motor —		Mounting Holes On Center	Overall Dimensions				Stock No.	Retail	Each	Lots 50	Shpg. Wt.
NEMA Frame	Brand		D	W	H						
48	Dayton, General Electric, Westinghouse	2 1/2"	1 3/4"	1"	1 1/4"		2X660	\$1.78	\$1.17	\$0.98	2 oz.
56	Westinghouse (1/8 to 3/4 HP)	2 7/8"	1 3/4"	1"	1 1/2"		2X414	1.46	.97	.84	3 oz.
56	General Electric (1/8 to 1/3 HP)	2 1/2"	1 1/2"	1 1/8"	1 1/4"		1X499	1.83	1.20	1.00	1 oz.

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

Information on most major items in Grainger's Product Book is available for the asking. Let our counter people know what you need,

or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.

SEE WARRANTY INFORMATION ON PAGE 684

Nachi

BALL BEARINGS—ELECTRIC MOTOR GRADE

Single-Row, Deep-Groove, Double Shields or Double Seals, 200 & 300 Series

Single row, deep groove, radial ball bearings made to exacting requirements and pre-lubricated for long life. Double shields or double seals in the popular 200 and 300 series bearings. Each bearing is individually inspected for quiet operation. Ideal for motors, generators, pumps, fans, power tools, appliances, etc.

Exceed rigid tolerances and running accuracies of ABEC-1 and AFBMA standards. Shielded bearings have two precision-fitted steel shields.



Sealed bearings have two tightly fitted neoprene seals for protection from moisture, dust, other abrasives. Permanently lubricated with Ando C bearing grease to insure quiet operation and minimum friction. Meets Military Spec MIL-G-18709 operating temperature range of 15 to 300°F. plus Federal Spec FF-B-171A.

Individually wrapped and cartoned to protect against dirt and moisture. Nachi brand from Japan. Widely used in top quality American products.

BEARING DIMENSION DATA—DOUBLE SHIELDS OR DOUBLE SEALS

Mfr. Model	Bore		Outside Diameter		Width		Balls	No.	Shpg. Wt.
	mm	In.	mm	In.	mm	In.			
6200	10	.3937	30	1.1811	9	.3543	$\frac{5}{16}$	7	2 oz.
6201	12	.4724	32	1.2598	10	.3937	$\frac{15}{64}$	7	2 oz.
6202	15	.5906	35	1.3780	11	.4331	$\frac{15}{64}$	8	2 oz.
6203	17	.6693	40	1.5748	12	.4724	$\frac{17}{64}$	8	2 oz.
6203-10	15.875	.6250	40	1.5748	12	.4724	$\frac{17}{64}$	8	2 oz.
6204	20	.7874	47	1.8504	14	.5512	$\frac{5}{16}$	8	4 oz.
6205	25	.9843	52	2.0472	15	.5906	$\frac{5}{16}$	9	5 oz.
6206	30	1.1811	62	2.4409	16	.6299	$\frac{5}{8}$	9	7 oz.
6207	35	1.3780	72	2.8346	17	.6693	$\frac{17}{64}$	9	10 oz.
6208	40	1.5748	80	3.1496	18	.7087	$\frac{15}{16}$	9	13 oz.
6209	45	1.7717	85	3.3465	19	.7480	$\frac{3}{2}$	9	15 oz.
6304	20	.7874	52	2.0472	15	.5906	$\frac{3}{2}$	7	5 oz.
6306	30	1.1811	72	2.8346	19	.7480	$\frac{21}{64}$	8	12 oz.
6307	35	1.3780	80	3.1496	21	.8268	$\frac{17}{64}$	8	1 lb.
6308	40	1.5748	90	3.5433	23	.9055	$\frac{15}{16}$	8	1 1/2 lb.
6309	45	1.7717	100	3.9370	25	.9843	$\frac{11}{16}$	8	2 lb.
6310	50	1.9685	110	4.3307	27	1.0603	$\frac{3}{4}$	8	2 1/2 lb.

SELECTION AND ORDERING INFORMATION

Mfr. Model	Stock No.	Retail	Each	Lots 10	NUMBERING INTERCHANGE, SEE FOOTNOTE (*)						MRC
					Fafnir	ND	Hoover	SKF	FAG		
SERIES 200 DOUBLE SHIELDS											
6200-ZZ	4X517	\$ 2.95	\$1.17	\$1.08	200KDD	77500	77200	6200-ZZ	200PP	200SF	
6201-ZZ	4X518	3.03	1.02	.93	201KDD	77501	77201	6201-ZZ	201PP	201SF	
6202-ZZ	4X440	3.21	1.13	1.01	202KDD	77502	77202	6202-ZZ	202PP	202SF	
6203-ZZ	4X441	2.61	.92	.86	203KDD	77503	77203	6203-ZZ	203PP	203SF	
6203-10ZZM†	5X681	2.91	1.28	1.20	—	—	77203-625	—	—	—	
6204-ZZ	4X442	3.81	1.24	1.15	204KDD	77504	77204	6204-ZZ	204PP	204SF	
6205-ZZ	4X443	4.56	1.41	1.38	205KDD	77505	77205	6205-ZZ	205PP	205SF	
6206-ZZ	4X444	5.31	2.12	1.92	206KDD	77506	77206	6206-ZZ	206PP	206SF	
6207-ZZ	4X519	6.99	2.10	1.88	207KDD	77507	77207	6207-ZZ	207PP	207SF	
6208-ZZ	4X520	7.86	3.18	2.89	208KDD	77508	77208	6208-ZZ	208PP	208SF	
6209-ZZ	4X521	8.74	3.20	3.01	209KDD	77509	77209	6209-ZZ	209PP	209SF	
SERIES 200 DOUBLE SEALS											
6200-2NSL	4X522	\$ 3.77	\$1.36	\$1.26	200KPP	99500	99200	6200-2RS	200NN	200SZ	
6201-2NSL	4X523	3.89	1.51	1.39	201KPP	99501	99201	6201-2RS	201NN	201SZ	
6202-2NSL	4X524	4.07	1.54	1.37	202KPP	99502	99202	6202-2RS	202NN	202SZ	
6203-2NSL	4X525	3.35	1.48	1.31	203KPP	99503	99203	6203-2RS	203NN	203SZ	
6204-2NSL	4X526	5.30	1.57	1.44	204KPP	99504	99204	6204-2RS	204NN	204SZ	
6205-2NSL	4X527	5.82	2.28	2.09	205KPP	99505	99205	6205-2RS	205NN	205SZ	
6206-2NSL	4X528	7.30	2.23	2.00	206KPP	99506	99206	6206-2RS	206NN	206SZ	
6207-2NSL	4X529	8.88	2.66	2.53	207KPP	99507	99207	6207-2RS	207NN	207SZ	
6208-2NSL	4X530	9.93	3.27	3.09	208KPP	99508	99208	6208-2RS	208NN	208SZ	
6209-2NSL	4X531	12.04	4.21	3.78	209KPP	99509	99209	6209-2RS	209NN	209SZ	
SERIES 300 DOUBLE SHIELDS											
6304-ZZ	5X679	\$ 4.02	\$1.52	\$1.36	304KDD	77604	77304	6304-ZZ	304PP	304SF	
6305-ZZ	6X456	3.83	2.55	2.35	305KDD	77605	77305	6305-ZZ	305PP	305SF	
6306-ZZ	4X532	7.99	2.66	2.46	306KDD	77606	77306	6306-ZZ	306PP	306SF	
6307-ZZ	4X533	9.36	3.10	2.87	307KDD	77607	77307	6307-ZZ	307PP	307SF	
6308-ZZ	4X534	11.72	4.19	3.83	308KDD	77608	77308	6308-ZZ	308PP	308SF	
6309-ZZ	4X535	14.47	4.99	4.47	309KDD	77609	77309	6309-ZZ	309PP	309SF	
6310-ZZ	4X536	17.43	7.14	6.49	310KDD	77610	77310	6310-ZZ	310PP	310SF	
SERIES 300 DOUBLE SEALS											
6304-2NSLM	5X680	\$ 5.05	\$1.78	\$1.62	304KPP	99604	99304	6304-2RS	304NN	304SZ	
6305-2NSL	6X457	4.65	3.10	2.86	305KPP	99605	99305	6305-2RS	305NN	305SZ	
6306-2NSL	6X458	6.35	4.23	3.91	306KPP	99606	99306	6306-2RS	306NN	306SZ	
6307-2NSL	6X459	7.95	5.30	4.89	307KPP	99607	99307	6307-2RS	307NN	307SZ	
6308-2NSL	6X460	9.08	6.05	5.58	308KPP	99608	99308	6308-2RS	308NN	308SZ	
6309-2NSL	6X461	11.15	7.43	6.86	309KPP	99609	99309	6309-2RS	309NN	309SZ	
6310-2NSL	6X462	13.53	9.02	8.32	310KPP	99610	99310	6310-2RS	310NN	310SZ	

(†) Same as No. 4X441 (6203-ZZ) except $\frac{3}{8}$ " bore.

(*) Abbreviations are: Fafnir, New Departure, Hoover, SKF, FAG (Norma-Hoffman), Marlin-Rockwell.

LOCTITE® SEALANTS, ADHESIVES & LUBRICANTS



A



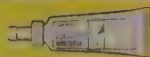
B



C



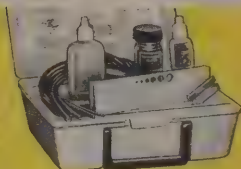
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E



F



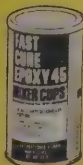
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J



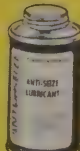
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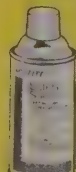
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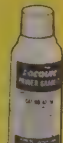
M



N



O



P

A THREAD SEALANT, MEDIUM STRENGTH. A self-hardening resin that seals against leakage and stops thread corrosion. Also locks all types of threaded fasteners. Reliable on all plated surfaces. No priming required. In 50cc squeeze bottle. (Mfrs. 242-31.) Shpg. wt. 1¼ lbs.

No. 6X167. Retail \$14.63. Each \$9.75; lots 10, \$8.76

B THREAD SEALANT, MEDIUM STRENGTH. Like (A) but in 10cc squeeze bottle. (242-21.) 2 oz.

No. 6X166. Retail \$4.88. Each \$3.25; lots 10, \$2.93

C BEARING RETAINER, HIGH STRENGTH. Self-hardening resin for bearing press fits. No priming required. In 50cc squeeze bottle. (Mfrs. 601-31.) Shpg. wt. 1¼ lbs.

No. 6X229. Retail \$16.43. Each \$10.95; lots 10, \$8.90

D RETAINING SEALANT, HIGH STRENGTH. A self-hardening resin with high shear strength for retaining cylindrical parts subject to axial and radial loads. Can be used on press-fit assemblies for added strength. Also for holding lip-fit assemblies with clearances up to .005". In 50cc squeeze bottle. (Mfrs. 601-31.) Wt. 1¼ lbs.

No. 6X169. Retail \$14.63. Each \$9.75; lots 10, \$8.76

E RETAINING SEALANT, HIGH STRENGTH. Like (C) but in 10cc squeeze bottle. (601-21.) 2 oz.

No. 6X168. Retail \$4.88. Each \$3.25; lots 10, \$2.93

F PIPE SEALANT WITH TEFLON. Seals threaded pipe and fittings instantly, hardens to form an insoluble seal that exceeds the pressure rating of the pipe. Has excellent resistance to most industrial acids, solvents and gases. Won't harden, crack, shrink or contaminate. In 50cc squeeze tube. (Mfrs. 92-31.) Shpg. wt. 1½ lbs.

No. 6X173. Retail \$5.93. Each \$3.95; lots 10, \$3.56

G GASKET ELIMINATOR. Does away with locking many shapes and sizes of fabricated gaskets. Simply apply coating to one side of metal flange after cleaning with Loctite safety solvent or similar cleaner. Then join flanges for a leak-proof gasket assembly. Loctite Grade T primer is recommended to reduce hardening time. In 50cc squeeze tube. (Mfrs. 504-31.) 1 lb.

No. 6X174. Retail \$11.93. Each \$7.95; lots 10, \$7.16

H O-RING SPLICING KIT. For making new O-rings in any size. Kit contains Buna-N rubber cord in ½, ⅜, ¼ and ⅛" dia.; splicing fixture with blade; ½ oz. Quick-Set Adhesive 404; cleaning solvent; waterproofing solution; and case. (Mfrs. 0112.) Shpg. wt. 1½ lbs.

No. 6X172. Retail \$31.88. Each \$21.25; lots 5, \$19.13

I SUPER BONDER. Bonds most non-porous surfaces including metal, glass, plastic and rubber. Sets in seconds. Has bonding strength up to 5000 PSI. In 2 gram squeeze tube. (Mfrs. 95-13.) Caution: Avoid contact with skin. Wt. 2 oz.

No. 6X170. Retail \$2.63. Each \$1.75; lots 5, \$1.58

J QUICK-SET ADHESIVE 404. A fast setting adhesive for high strength bonding of rubber, aluminum, steel, plastic or other non-porous material. Sets in seconds. In ½ oz. squeeze bottle. (Mfrs. 65-51.) Caution: Avoid contact with skin. Shpg. wt. 2 oz.

No. 6X171. Retail \$9.45. Each \$6.30; lots 10, \$5.67

K FAST CURE EPOXY 45. Bonds, seals and moisture-proofs. Sets in 10 to 15 minutes, full cure in 3 hours. Single can contains 10 pre-measured 4 gram cups to eliminate guesswork. Not for use with elastomers. (Mfrs. 45-81.) 1 lb.

No. 6X176. Retail \$6.60. Each \$5.48; lots 10, \$4.94

L MINUTE-BOND ADHESIVE 312. For bonding metal, glass and many plastics including polyesters, phenolics, nylons and PVC. Sets in 15 seconds, full cure is as strong as epoxies. Not for rubber. In combination pack containing 10cc squeeze bottle of adhesive and 20 gram aerosol can of primer. (Mfrs. 33-33.) Shpg. wt. 12 oz.

No. 6X177. Retail \$7.88. Each \$5.25; lots 10, \$4.73

M ANTI-SEIZE LUBRICANT. Prevents corrosion, protects moving parts from seizure due to temperature extremes of -65° to +2000°F. Also for high-pressure applications where operating temperatures are normal. Used on conveyor rollers, exposed gears, wire rope, etc. In 12 oz. aerosol spray can. (Mfrs. 67-59.) Wt. 1 lb.

No. 6X178. Retail \$5.33. Each \$3.55; lots 10, \$3.20

N ANTI-SEIZE LUBRICANT. Same as (M) but in 1 lb. can with brush top. (Mfrs. 67-64.) 1¼ lbs.

No. 6X179. Retail \$7.13. Each \$4.75; lots 10, \$4.29

O SAFETY SOLVENT. A low toxic, non-flammable solvent for dissolving grease and oil from metal parts. Highly recommended for cleaning surfaces prior to using Loctite sealants and adhesives. 12 oz. aerosol can. (Mfrs. 55-59.) 1 lb.

No. 6X175. Retail \$3.90. Each \$2.60; lots 10, \$2.36

P PRIMER, GRADE T. Speeds room temperature hardening of Loctite sealants and adhesives. Also provides mild degreasing action. Not for use with Quick-Set Adhesive 404 or epoxies. In 6 oz. aerosol spray can. (Mfrs. 47-56.) 10 oz.

No. 6X180. Retail \$4.28. Each \$2.85; lots 10, \$2.57



MOTOR-STARTING ELECTROLYTIC CAPACITORS

For 110-125, 220-250 and 330 VAC, 50/60 Hz. Rated 3-Second Start, 20 Starts Per Hour

No. 4X057

85c Lots
12

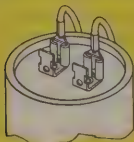
Dayton AC electrolytic capacitors are designed for normal, intermittent service on single-phase motor starting applications—pumps, oil burners, refrigerators and wherever single-phase, capacitor start AC motors are used. Designed to function properly up to a maximum of 20 starts per hour, each not to exceed 3 seconds duration, line frequency not to exceed 66 Hz. Meets the most rigid military and commercial standards. They are well within military and NEMA standards of 10% for maximum power factor. Most containers are plastic to provide an effective seal against moisture. Triple-type terminals for solder, screw or ¼" female quick-disconnect connection except No. 4X057, which has solder terminal only. Individually cartoned. Dayton brand.



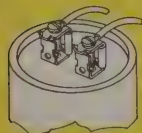
2-YR. LIMITED WARRANTY

Capacitors on these two pages will be replaced at no charge if they fail to give complete satisfaction. See Limited Warranty Policy in Index.

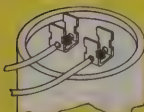
TRIPLE-TYPE TERMINALS



QUICK-CONNECT



SCREW



SOLDER

MFD Rating	Overall Dia.	Long	Stock No.	Retail	Each	Lots 6	Lots 12 Std. Ctn.	Shpg. Wt.
110-125 VAC, 50/60 Hz, ELECTROLYTIC CAPACITORS								
71-90	1 1/16"	3"	4X057†	\$2.60	\$1.04	\$0.94	\$0.85	3 oz.
105-126	1 1/16"	2 3/4"	4X058	3.20	1.27	1.14	1.04	3 oz.
130-156	1 1/16"	2 3/4"	4X059	3.40	1.36	1.22	1.11	3 oz.
141-169	1 1/16"	2 3/4"	4X060	3.55	1.42	1.28	1.16	3 oz.
161-193	1 1/16"	2 3/4"	4X061	3.75	1.49	1.34	1.22	3 oz.
189-227	1 1/16"	2 3/4"	4X062	3.90	1.56	1.40	1.27	3 oz.
200-240	1 1/16"	3 3/8"	4X063	4.10	1.64	1.48	1.35	4 oz.
233-280	1 1/16"	3 3/8"	4X064	4.80	1.91	1.72	1.56	4 oz.
250-300	1 1/16"	3 3/8"	4X065	4.95	1.98	1.78	1.62	4 oz.
324-388	1 1/16"	3 3/8"	4X066	5.85	2.33	2.10	1.91	4 oz.
340-408	1 1/16"	3 3/8"	4X067	6.45	2.58	2.32	2.11	4 oz.
378-420	1 1/16"	3 3/8"	4X068	6.60	2.64	2.38	2.16	4 oz.
430-480	1 1/16"	3 3/8"	4X069	7.05	2.82	2.54	2.31	4 oz.
485-540	1 1/16"	4 3/8"	4X070	8.25	3.29	2.96	2.69	9 oz.
540-600	1 1/16"	4 3/8"	4X071	8.75	3.49	3.14	2.85	11 oz.
590-708	2 1/16"	4 3/8"	5X673	9.60	3.84	3.46	3.14	11 oz.
800-872	2 1/16"	4 3/8"	5X674	13.50	5.40	4.86	4.42	1
220-250 VAC, 50/60 Hz, ELECTROLYTIC CAPACITORS								
53-64	1 1/16"	3 3/8"	4X653	\$6.25	\$2.49	\$2.24	\$2.04	4 oz.
64-77	1 1/16"	3 3/8"	4X654	6.90	2.76	2.48	2.25	4 oz.
108-130	1 1/16"	4 3/8"	4X655	8.45	3.38	3.04	2.76	6 oz.
124-149	1 1/16"	4 3/8"	4X656	8.95	3.58	3.22	2.93	6 oz.
130-156	1 1/16"	4 3/8"	4X657	9.40	3.76	3.38	3.07	8 oz.
145-175	2 1/16"	4 3/8"	4X658	11.05	4.42	3.98	3.62	8 oz.
161-193	2 1/16"	4 3/8"	4X659	11.95	4.78	4.30	3.91	8 oz.
216-259	2 1/16"	4 3/8"	4X660	15.85	6.33	5.70	5.18	11 oz.
233-280	2 1/16"	4 3/8"	4X661	16.45	6.58	5.92	5.38	1
280-333	2 1/16"	4 3/8"	4X662	17.30	6.91	6.22	5.65	1
330 VAC, 50/60 Hz, ELECTROLYTIC CAPACITORS								
54-64	1 1/16"	3 3/8"	5X565	\$9.30	\$3.71	\$3.34	\$3.04	4 oz.
64-77	2 1/16"	4 3/8"	5X566	9.95	3.98	3.58	3.25	8 oz.
72-88	2 1/16"	4 3/8"	5X567	10.85	4.33	3.90	3.55	8 oz.
88-108	2 1/16"	4 3/8"	5X568	12.40	4.96	4.46	4.05	11 oz.
108-130	2 1/16"	4 3/8"	5X569	14.55	5.82	5.24	4.76	1
124-148	2 1/16"	4 3/8"	5X570	15.80	6.31	5.68	5.16	1
130-156	2 1/16"	4 3/8"	5X571	16.60	6.64	5.98	5.44	1
145-175	2 1/16"	4 3/8"	5X572	17.05	6.82	6.14	5.58	1
161-193	2 1/16"	4 3/8"	5X573	18.45	7.38	6.64	6.04	1 1/4

(†) Aluminum case, others plastic.

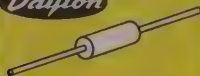
CAPACITOR PART NUMBER INTERCHANGE GUIDE—SEE PAGE 134 FOR DETAILS

15,000 OHM, 2 WATT RESISTOR

For Motor-Start Electrolytic Capacitors. Helps Protect Relay Contacts

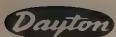
When soldered across the terminals of an electrolytic motor-start capacitor, resistor bleeds-off the electrical charge that is stored as the relay or starting switch contacts open and the capacitor is disconnected from the line. Helps prevent contact points from arcing and welding closed on rapid-cycling applications. Priced and sold in packages of 5 resistors. Dayton brand. Shpg. wt. 1 oz.

No. 6X181. Retail \$2.70. Package of 5 \$1.80; lots 10, packages.....\$1.47



\$1.47 Pkg. 5,
Lots 10

YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.



MOTOR-RUNNING AC OIL-FILLED CAPACITORS

370, 440-460V, 50/60 Hz, Hermetically Sealed, Oval & Rectangular Cases. Meet NEMA Standards

No. 4X424 Built for motor-running applications as in air conditioners, refrigerators, business machines, fans, and similar equipment. Diaclor II® (Askarel) impregnated. Operates in ambient temperature range of -40°F to +130°F (-40°C to +55°C) with microfarad values within ±10% of rating to meet NEMA standard. Hermetically

\$1.88

Lots 6

sealed, drawn steel cases with double-roll-seamed covers. Oval case on all types except 35, 40 and 50 MFD, 440/460VAC, which are rectangular. Dual blade, 1/4" male quick-connect type terminals with phenolic insulating cups. Each capacitor fully inspected. Two year limited warranty. See Limited Warranty Policy in Index. Individually cartoned.

370 VAC MOTOR-RUN CAPACITORS

Replaces Oil-Types Rated 115, 165, 220, 236, 330 & 370 VAC

MFD Rating	Oval Case Wide	Case Deep	Dimensions High	Stock No.	Retail	Each	Lots 6 Std. Ctn.	Shpg. Wt.
2	1 1/16	2 5/16	2 1/16	4X424	\$4.95	\$1.98	\$1.88	6 oz.
3	1 1/16	2 5/16	2 1/16	4X425	4.95	1.98	1.88	3 oz.
4	1 1/16	2 5/16	2 1/16	4X426	5.45	2.17	2.05	6 oz.
5	1 1/16	2 5/16	2 5/16	4X427	6.30	2.51	2.38	8 oz.
6	1 1/16	2 5/16	2 1/16	4X428	6.95	2.77	2.63	8 oz.
7.5	1 1/16	2 5/16	3 1/16	4X429	7.90	3.15	2.98	8 oz.
10	1 1/16	2 5/16	4 1/16	4X447	10.25	4.09	3.88	8 oz.
15	1 1/16	2 1/16	3 1/16	4X448	12.65	5.06	4.78	1 1/2
17.5	1 1/16	2 1/16	3 1/16	4X449	14.30	5.72	5.41	1 1/2
20	1 1/16	2 1/16	4 1/16	4X450	16.05	6.42	6.07	1
25	1 3/16	2 1/16	5 3/16	4X451	18.50	7.40	7.00	1 1/2
30	1 3/16	2 1/16	5 3/16	4X452	21.80	8.72	8.25	2
35	1 3/16	3 1/16	6 3/16	4X453	24.95	9.98	9.45	3
40	1 3/16	3 1/16	7 1/16	4X749	28.45	11.38	10.77	3 1/2



OVAL CASE
370, 440-460 VAC
Except 440-460 VAC,
35, 40, 50 MFD

440-460 VAC MOTOR-RUN CAPACITORS

Replaces Oil-Types Rated 115, 165, 220, 236, 330, 370, 440 & 460 VAC

MFD Rating	Oval Case Wide	Case Deep	Dimensions High	Stock No.	Retail	Each	Lots 4 Std. Ctn.	Shpg. Wt.
10	1 3/16	2 1/16	3 1/16	4X750	\$12.50	\$5.00	\$4.73	1
15	1 3/16	2 1/16	4 1/16	4X751	16.85	6.74	6.38	1
17.5	1 3/16	2 1/16	5 1/16	4X752	18.15	7.25	6.86	1 1/4
20	1 3/16	2 1/16	6 1/16	4X753	19.45	7.98	7.55	1 3/4
25	1 3/16	3 1/16	5 3/16	4X754	23.40	9.36	8.86	2
30	1 3/16	3 1/16	6 3/16	4X755	30.00	12.00	11.11	2 1/2
35	2 1/16	4 1/16	4 3/16	4X756*	35.95	14.37	13.28	3
40	2 1/16	4 1/16	4 3/16	4X757*	39.05	15.62	14.74	3
0	2 1/16	4 1/16	6 1/16	4X758*	50.90	20.36	17.23	4 3/4

*) Rectangular case, all others are oval case.

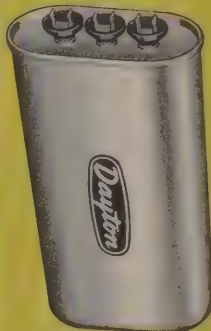


RECTANGULAR CASE(*)
440-460 VAC
35, 40, 50 MFD Only.
Others Oval Case

370 VAC DUAL-RATED CAPACITORS

Two separate capacitors in single case. Handles two MFD applications such as fan motor and compressor unit on air conditioner. Has 3 terminals, 1 common to both MFD ratings. May be used as single capacitor by wiring the terminals in parallel (example, 35/5 MFD, 370 VAC can be used as 40 MFD, 370 VAC).

MFD Rating	Oval Case Wide	Case Deep	Dimensions High	Stock No.	Retail	Each	Lots 4 Std. Ctn.	Shpg. Wt.
5/4	1 3/16	2 3/16	4 1/16	4X759	\$18.20	\$7.27	\$6.75	1
5/5	1 3/16	2 3/16	4 3/16	4X760	18.80	7.52	6.98	1
7.5/4	1 3/16	2 3/16	4 3/16	4X761	19.70	7.87	7.30	1 1/4
7.5/5	1 3/16	2 3/16	4 3/16	4X762	20.90	8.35	7.75	1 1/4
10/4	1 3/16	2 3/16	5 1/16	4X763	20.30	8.12	7.54	1 1/4
10/5	1 3/16	2 3/16	5 3/16	4X764	20.70	8.27	7.68	1 1/4
15/4	1 3/16	3 1/16	5 1/16	4X765	22.85	9.13	8.48	2
15/5	1 3/16	3 1/16	5 3/16	4X766	23.40	9.35	8.68	2 1/4
20/5	1 3/16	3 1/16	6 3/16	4X767	28.15	11.25	10.45	2 1/2
25/5	1 3/16	3 1/16	7 1/16	4X768	30.00	12.00	11.14	3 1/2



OVAL CASE
370 VAC Dual-Rated

CAPACITOR PART NUMBER INTERCHANGE GUIDE — SEE NEXT PAGE FOR DETAILS

MODIFIED MOTORS AVAILABLE FOR OEM PRODUCTION USE

Modified versions of stock Dayton and Westinghouse motors are available to quantity users on special order, with deliveries scheduled to meet production needs. Your Grainger salesman can advise availability and quote prices on your special motor needs.

SEE WARRANTY INFORMATION ON PAGE 684

CAPACITOR PART NUMBER INTERCHANGE GUIDE

Lists Aerovox, C-D, GE, Mallory, Sprague & Sangamo Part Nos. Alongside Closest Comparable Grainger Stock Nos. For Motor-Starting (Electrolytic) and Motor-Running (Oil-Filled) Capacitors

HOW TO USE: Simply find the column that lists your current capacitor brand in numerical sequence and locate the part number you're now purchasing. To the immediate right of that num-

ber will be the stock number of nearest Grainger equivalent, listed on preceding pages. Note: Grainger equivalents may vary dimensionally—check case size before ordering.

Mfrs. Part No.	Grainger Stock No.	Mfrs. Part No.	Grainger Stock No.	Mfrs. Part No.	Grainger Stock No.	Mfrs. Part No.	Grainger Stock No.	Mfrs. Part No.	Grainger Stock No.
Aerovox		Aerovox (Cont'd.)		Cornell Dubilier		General Electric		Mallory (Cont'd.)	
MSRP-800	4X057	MSRT-359	5X567	ETWJ-28510	4X065	35F999BB1	4X069	PSU14520	4X658
MSRP-801	4X058	MSRT-360	5X569	ETWJ-34010	4X066	35F1104BB1	4X655	PSU14525	4X060
MSRP-802	4X058	RDO-946	4X453	ETWJ-34025	4X066	35F1107BB1	4X653	PSU16115	4X061
MSRP-803	4X061	RGO-900	4X447	ETWJ-38010	4X067	35F1108BB1	4X654	PSU16125	4X061
MSRP-804	4X063	RGO-901	4X448	ETWJ-38025	4X067	35F1109BB1	4X654	PSU18915	4X062
MSRP-805	4X063	RGO-902	4X450	ETWJ-40010	4X068	35F1110BB1	4X655	PSU18925	4X062
MSRP-806	4X064	RGO-903	4X447	ETWJ-40025	4X068	35F1111BB1	4X655	PSU20015	4X063
MSRP-807	4X065	RGO-920	4X429	ETWJ-44010	4X068	35F1112BB1	4X658	PSU21615	4X063
MSRP-808	4X066	RGO-922	4X447	ETWJ-50010	4X069	35F1113BB1	4X659	PSU23315	4X064
MSRP-809	4X068	RGO-930	4X449	ETWJ-57510	4X071	35F1318BB1	4X654	PSU24315	4X064
MSRP-810	4X070	RGO-935	4X450	KGJ3030	4X425	45F167	4X427	PSU24325	4X064
MSRP-818	4X057	RGO-940	4X451	KGJ3040	4X426	45F168	4X427	PSU27015	4X064
MSRP-819	4X057	RGO-950	4X750	KGJ3050	4X427	45F169	4X429	PSU27325	4X064
MSRP-822	4X059	RGO-999	4X449	KGJ3080	4X429	45F170	4X447	PSU32415	4X066
MSRP-823	4X060	RMO-960	4X425			45F171	4X450	PSU32425	4X066
MSRP-824	4X062	RMO-962	4X426			45F172	4X451	PSU34015	4X067
MSRP-825	4X067	RMO-965	4X427	General Electric		45F175	4X749	PSU34125	4X067
MSRP-826	4X068	RSO-952	4X751	35F156BB1	4X057	45F270	4X424	PSU37815	4X068
MSRP-827	4X069	RY-669	4X429	35F157BB1	4X058	45F271	4X425	PSU40015	4X067
MSRP-843	5X567	RY-781	4X758	35F158BB1	4X058	45F272	4X426	PSU40025	4X067
MSRP-850	4X653			35F160BB1	4X059	45F273	4X427	PSU43010	4X069
MSRP-851	4X653			35F161BB1	4X060	45F274	4X428	PSU46010	4X071
MSRP-856	4X654	Cornell Dubilier		35F163BB1	4X062	45F275	4X429	OP336	4X425
MSRP-857	4X654	ETBJ-78	4X057	35F166BB1	4X065	45F276	4X447	OP436	4X426
MSRP-858	4X654	ETBJ-95	4X057	35F167BB1	4X065	45F278	4X448	OP536	4X427
MSRP-862	4X658	ETBJ-110	4X058	35F168BB1	4X067	45F279	4X449	OP760	4X427
MSRP-877	4X057	ETBJ-130	4X059	35F169BB1	4X068	45F513	4X450	OP1036	4X447
MSRP-878	4X057	ETBJ-145	4X059	35F170BB1	4X068	45F514	4X451	OP1070	4X447
MSRP-879	4X057	ETBJ-155	4X060	35F173BB1	4X068	45F516	4X453	OP1536	4X448
MSRP-880	4X057	ETBJ-170	4X061	35F183BB1	4X057	45F517	4X749	OP1570	4X448
MSRP-881	4X058	ETBJ-210	4X062	35F184BB1	4X058	45F308	4X758	OP2036	4X450
MSRP-882	4X060	ETBJ-225	4X062	35F185BB1	4X058	45F338	4X750	OP2070	4X450
MSRP-883	4X061	ETBJ-255	4X064	35F188BB1	4X060	45F340	4X755	OP2570	4X451
MSRP-884	4X062	ETBJ-285	4X064	35F191BB1	4X063	45F355	4X751	OP3070	4X452
MSRP-886	4X064	ETBJ-340	4X066	35F192BB1	4X064	45F356	4X752	OP17.5	4X449
MSRP-888	4X066	ETBJ-380	4X067	35F193BB1	4X065	45F357	4X753		
MSRP-889	4X067	ETBJ-400	4X066	35F195BB1	4X067				
MSRP-890	4X068	ETBJ-440	4X067	35F196BB1	4X068				
MSRT-160	4X058	ETBJ-500	4X068	35F198BB1	4X069				
MSRT-162	4X058								
MSRT-171	4X060	ETBJ-575	4X070	35F199BB1	4X069	Mallory		AB-1109	4X057
MSRT-176	4X057	ETRJ-78	4X057	35F207BB1	4X653	PSU5050	4X653	AB-1110	4X057
MSRT-180	4X058	ETRJ-95	4X057	35F208BB1	4X654	PSU5320	4X653	AB-1113	4X058
MSRT-192	4X063	ETRJ-110	4X058	35F211BB1	4X655	PSU5640	4X654	AB-1116	4X058
MSRT-196	4X057	ETRJ-130	4X058	35F212BB1	4X656	PSU7020	4X654	AB-1119	4X059
MSRT-198	4X061	ETRJ-145	4X059	35F213BB1	4X657	PSU7215	4X057	AB-1122	4X060
MSRT-206	4X068	ETRJ-155	4X060	35F214BB1	4X658	PSU7225	4X057	AB-1125	4X061
MSRT-207	4X065	ETRJ-170	4X061	35F215BB1	4X659	PSU7230	5X566	AB-1128	4X062
MSRT-210	4X066	ETRJ-210	4X062	35F216BB1	4X659	PSU7250	4X654	AB-1130	4X063
MSRT-213	4X064	ETRJ-255	4X064	35F225BB1	4X657	PSU7510	4X057	AB-1131	4X062
MSRT-250	4X653	ETRJ-340	4X066	35F226BB1	4X656	PSU7520	4X654	AB-1134	4X064
MSRT-251	4X653	ETRJ-380	4X067	35F262BB1	4X656	PSU7550	4X654	AB-1137	4X064
MSRT-256	4X068	ETRJ-400	4X068	35F291BB1	4X659	PSU8610	4X057	AB-1140	4X064
MSRT-257	4X062	ETWJ-7810	4X057	35F307BB1	5X565	PSU8625	4X057	AB-1142	4X066
MSRT-266	4X057	ETWJ-7825	4X057	35F311BB1	5X569	PSU8630	5X568	AB-1143	4X067
MSRT-272	4X061	ETWJ-9510	4X057	35F312BB1	5X570	PSU10815	4X058	AB-1146	4X068
MSRT-281	4X057	ETWJ-9525	4X057	35F313BB1	5X571	PSU10825	4X058	AB-1149	4X067
MSRT-283	4X058	ETWJ-1010	4X058	35F377BB1	5X568	PSU10830	5X659	AB-1158	4X071
MSRT-284	4X058	ETWJ-11025	4X058	35F527BB1	4X065	PSU10835	4X655	AB-1209	4X075
MSRT-285	4X060	ETWJ-13025	4X058	35F590BB1	4X071	PSU12135	4X656	AB-1210	4X057
MSRT-289	4X064	ETWJ-14510	4X059	35F685BB1	4X064	PSU12150	4X656	AB-1213	4X058
MSRT-300	4X654	ETWJ-15525	4X060	35F712BB1	4X660	PSU12415	4X058	AB-1216	4X058
MSRT-301	4X654	ETWJ-16510	4X060	35F733BB1	4X661	PSU12425	4X058	AB-1219	4X059
MSRT-302	4X654	ETWJ-17010	4X061	35F816BB1	5X566	PSU12430	5X570	AB-1222	4X060
MSRT-305	4X656	ETWJ-17025	4X061	35F817BB1	5X567	PSU12415	4X058	AB-1225	4X061
MSRT-306	4X658	ETWJ-21010	4X062	35F906BB1	4X061	PSU12425	4X058	AB-1228	4X062
MSRT-314	4X070	ETWJ-21025	4X062	35F990BB1	4X063	PSU12430	5X570	AB-1234	4X064
MSRT-315	4X071	ETWJ-22510	4X062	35F991BB1	4X069	PSU12730	5X570	AB-1237	4X064
MSRT-330	4X057	ETWJ-25510	4X064	35F992BB1	4X069	PSU13015	4X059	AB-1240	4X064
MSRT-358	5X567	ETWJ-25525	4X064	35F993BB1	4X069	PSU13025	4X059	AB-1243	4X067
				35F995BB1	4X059	PSU13530	5X571	AB-1246	4X067
				35F996BB1	4X061	PSU13535	4X657	AB-2207	4X653
				35F997BB1	4X062	PSU13550	4X657	AB-2208	4X654
				35F998BB1	4X068	PSU14515	4X060	AB-2209	4X654

CAPACITOR PART NO. INTERCHANGE GUIDE (continued)

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Sprague		Sprague (Cont'd.)		Sprague (Cont'd.)		Sangamo (Cont'd.)	
AB-2213	4X655	AM-1158	4X071	OVD-3154	4X759	536-1724-01	4X069
AB-2216	4X656	AM-1209	4X057	OVD-3155	4X760	536-1725-01	4X071
AB-2222	4X658	AM-1210	4X057	OVD-3174	4X761	536-1726-01	5X673
AB-2506	4X653	AM-1213	4X058	OVD-3175	4X762	536-1735-01	4X057
AB-2509	4X654	AM-1216	4X058	OVD-3204	4X763	536-1736-01	4X057
AB-2514	4X656	AM-1219	4X059	OVD-3254	4X765	536-1737-01	4X058
AB-2516	4X656	AM-1222	4X060	OVD-3255	4X766	536-1738-01	4X059
AB-2519	4X657	AM-1225	4X061	OVD-3305	4X767	536-1739-01	4X059
AB-2520	4X657	AM-1228	4X062	OVD-3355	4X768	536-1740-01	4X060
AB-2522	4X658	AM-1237	4X064			536-1741-01	4X061
AB-3209	5X566	AM-1240	4X065	Sangamo		536-1742-01	4X062
AB-3213	5X569	AM-1242	4X066	80A206U233S2	4X424	536-1743-01	4X063
AB-3216	5X570	AM-1243	4X067	80A206U333S2	4X425	536-1744-01	4X064
AB-3219	5X570	AM-1249	4X068	80A206U433S2	4X426	536-1745-01	4X064
AB-3220	5X571	AM-2207	4X653	80A206U237S2	4X424	536-1746-01	4X065
AH-1109	4X057	AM-2208	4X654	80A206U337S2	4X425	536-1747-01	4X067
AH-1110	4X057	AM-2209	4X654	80A231U533S2	4X427	536-1748-01	4X068
AH-1113	4X058	AM-2210	5X568	80A231U537S2	4X427	536-1749-01	4X068
AH-1116	4X058	AM-2213	4X655	80A243U633S2	4X428	536-1750-01	4X069
AH-1119	4X059	AM-2222	4X658	80A281U637S2	4X428	536-1751-01	4X069
AH-1122	4X060	AM-2509	4X654	80A306U7R533S2	4X429	536-1752-01	4X071
AH-1125	4X061	AM-3213	5X569	80A343U7R537S2	4X429	536-1753-01	5X673
AH-1128	4X062	AM-3216	5X570	80A381U1033S2	4X447	536-1785-01	4X653
AH-1131	4X063	AM-3220	5X571	80A418U1037S2	4X447	536-1786-01	4X654
AH-1134	4X064	OV-1020	4X425	80C350U1044S2	4X750	536-1787-01	4X654
AH-1137	4X064	OV-1040	4X426	80C350U1533S2	4X448	536-1788-01	4X655
AH-1140	4X065	OV-1200	4X450	80C350U1537S2	4X448	536-1789-01	4X655
AH-1209	4X057	OV-2030	4X425	80C387U17R533S2	4X449	536-1790-01	4X656
AH-1210	4X057	OV-2040	4X426	80C387U17R537S2	4X449	536-1791-01	4X657
AH-1213	4X058	OV-2050	4X427	80C425U2033S2	4X450	536-1792-01	4X658
AH-1216	4X058	OV-2060	4X428	80C450U1544S2	4X751	536-1793-01	4X659
AH-1219	4X059	OV-2075	4X429	80C450U2037S2	4X450	536-1794-01	4X659
AH-1222	4X060	OV-2080	4X429	80C525U17R544S2	4X752	536-1795-01	4X660
AH-1225	4X061	OV-2100	4X447	80C525U2533S2	4X451	536-1796-01	4X661
AH-1228	4X062	OV-2150	4X448	80C575U2537S2	4X451	536-1797-01	4X661
AH-1237	4X064	OV-2200	4X450	80C625U2044S2	4X753	536-1798-01	4X662
AH-1240	4X065	OV-2250	4X451	80C675U3533S2	4X453	536-1807-01	4X653
AH-1607	4X653	OV-2300	4X452	80D625U4033S2	4X749	536-1808-01	4X654
AH-2207	4X653	OV-3020	4X424	80D675U3044S2	4X755	536-1809-01	4X655
AM-1109	4X057	OV-3030	4X425	80D675U3537S2	4X453	536-1810-01	4X655
AM-1110	4X057	OV-3040	4X426	80D725U4033S2	4X749	536-1811-01	4X656
AM-1113	4X058	OV-3050	4X427	536-1708-01	4X057	536-1812-01	4X657
AM-1116	4X058	OV-3060	4X428	536-1709-01	4X057	536-1813-01	4X658
AM-1119	4X059	OV-3075	4X429	536-1710-01	4X058	536-1814-01	4X659
AM-1122	4X060	OV-3100	4X447	536-1711-01	4X059	536-1815-01	4X659
AM-1125	4X061	OV-3150	4X448	536-1712-01	4X059	536-1816-01	4X660
AM-1128	4X062	OV-3175	4X449	536-1713-01	4X060	536-1817-01	4X661
AM-1130	4X063	OV-3200	4X450	536-1714-01	4X061	536-1818-01	4X661
AM-1131	4X063	OV-3250	4X451	536-1715-01	4X062	536-1819-01	4X662
AM-1134	4X064	OV-3300	4X452	536-1716-01	4X063	536-1826-01	5X565
AM-1137	4X064	OV-3350	4X453	536-1717-01	4X064	536-1827-01	5X566
AM-1140	4X065	OV-3400	4X749	536-1718-01	4X064	536-1828-01	5X567
AM-1142	4X066	OV-4100	4X750	536-1719-01	4X065	536-1829-01	5X568
AM-1143	4X067	OV-4150	4X751	536-1720-01	4X067	536-1830-01	5X569
AM-1146	4X068	OV-4175	4X752	536-1721-01	4X068	536-1831-01	5X570
AM-1149	4X068	OV-4200	4X753	536-1722-01	4X068	536-1832-01	5X571
AM-1152	4X069	OV-4250	4X754	536-1723-01	4X069	536-1839-04	5X572
AM-1155	4X069	OV-4300	4X755				5X573

Dayton Full-Fact Carton Label Makes Motor Stocking and Selection Easier

Over 800 Dayton motor types have Full-Fact carton labels. The helpful Dayton label illustrates and identifies specific motor, and lists all its important electrical and mechanical



features clearly, for easy reference by dealer and user. Providing complete information on the label simplifies motor selection, helps assure customer satisfaction.

REPLACEMENT SWITCHES for DAYTON 50°C RISE MOTORS

Factory Parts for General-Purpose Split Phase and Capacitor Motors, NEMA 56 Frame

Dayton

Rotating
Switches

\$2.10

A



B



C



D



DAYTON STATIONARY SWITCHES

Fig.	Dayton Model	NEMA Frame	AC Voltage	Frequency Hz	Speed RPM	Mounting Holes on Center	Contacts	Use With Rotating Switch No.	Stock No.	Retail	Each	Shpg. Wt.
A	R1019	56	115/230, 115, 230	All	All	12 $\frac{1}{16}$ " or 2 $\frac{15}{16}$ "	1 Pair	4X414	4X411	\$4.03	\$3.40	3 oz.
B	35482	56	115, 230	All	All	2 $\frac{1}{16}$ "	1 Pair	4X415	4X412	4.35	3.64	3 oz.

(†) Furnished with 2 sets of mounting holes for interchangeability.

DAYTON ROTATING SWITCHES

Fig.	Dayton Model	NEMA Frame	RPM	Carrier Bore ID (shaft)	Spool Dia. ID OD	No. of Springs	Use With Stationary Switch No.	Stock No.	Retail	Each	Shpg. Wt.
C	34819	56	1725	5/8"	4 $\frac{1}{16}$ " 1 $\frac{13}{16}$ "	2	4X411	4X414	\$2.48	\$2.10	2 oz.
D	36357	56	1725	5/8"	4 $\frac{1}{16}$ " 1 $\frac{13}{16}$ "	2	4X412	4X415	2.48	2.10	2 oz.

REPLACEMENT SWITCHES for DAYTON 40°C RISE MOTORS

Factory Parts for Heavy-Duty Capacitor Motors 40°C Rise, NEMA 56 and 66 Frames

A



B



C



D



Dayton

Nos. 4X418, 4X422

\$1.39

DAYTON STATIONARY SWITCHES

Fig.	Dayton Model	NEMA Frame	AC Voltage	Frequency Hz	Speed RPM	Mounting Holes on Center	Contacts	Use With Rotating Switch No.	Stock No.	Retail	Each	Shpg. Wt.
A	290046-909 (#)	56, 66	115/230	60, 50	1425, 1725 2875, 3450	3 Hole Standard	1 Pair	4X419, 4X420 4X421	4X416	\$5.85	\$4.93	3 oz.
B	A1065	56, 66	115, 230	All	All	2 $\frac{11}{16}$ "	1 Pair	4X422	4X418	2.09	1.39	3 oz.

(f) May be used satisfactorily as a replacement for Dayton part Nos. 1254, 2670, 1722 and 1391.

DAYTON ROTATING SWITCHES

Fig.	Dayton Model	NEMA Frame	Speed RPM	Carrier Bore ID (Shaft)	Spool OD	Number of Weights	Use With Stationary Switch No.	Stock No.	Retail	Each	Shpg. Wt.
C	290317-905	56	1725	3/4"	—	—	4X416	4X419	\$4.20	\$3.54	2 oz.
C	290317-906	56, 66	1725	3/8"	—	—	4X416	4X420	4.20	3.54	2 oz.
C	290317-901	56	3450	3/4"	—	—	4X416	4X421	4.20	3.54	2 oz.
D	2510-4	56, 66	1725	5/8"	2 $\frac{17}{32}$ "	3	4X418	4X422	2.09	1.39	3 oz.

DAYTON MOTOR PARTS

Factory Parts Available From Stock

Genuine Dayton replacement parts available from large Chicago stock. Same day shipping service. Single phase Dayton motor parts include: Centrifugal Switches (rotating & stationary), Bearings, Capacitors, Overload Protectors, Internal & External Fans, Capacitor Covers, etc.

Write for complete 20-page parts list, No. 551040. Include Dayton motor stock and model number when you order and send to nearest Grainger address.

FIBRE WASHER KIT BARGAIN

\$7.58 Lots 3



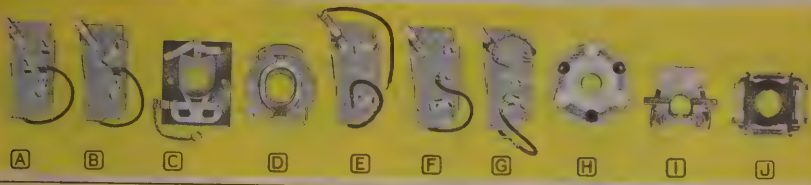
48 sizes of fibre washers, 3/32 to 15/16" bores. For taking end-play out of motors, and 1001 other repair

uses. Handy, hinged lid, clear plastic box. Provides a generous supply for service and craftsmen. Fibre Materials brand. Shpg. wt. 9 oz.

No. 1X348. Retail \$10.15. Each \$8.10; lots 3, \$7.58

REPLACEMENT SWITCHES for WESTINGHOUSE MOTORS

Factory Parts for Split Phase and Capacitor Motors, NEMA 48 and 56 Frames



WESTINGHOUSE STATIONARY SWITCHES

Fig.	Westinghouse Model	NEMA Frame	Volts	Type (#)	Mounting Holes on Center	Inside Dia.	Contacts	Use With Rotating Switch No.	Stock No.	Retail	Each	Lots 10
A	369C412A01	48	115	1	2 15/16"	—	1 pair	4X405	4X400	\$4.65	\$4.38	\$4.20
B	369C435A01	48	115	2	2 15/16"	—	1 pair	4X405	4X401	4.65	4.38	4.20
C	31D3361A01	56	115	all	1 7/8"	2 5/8"	1 pair	2X615	2X614	4.45	4.16	3.99
D	165A011A02	56	115/230	all	1 7/8"	1	1 pair	2X953	2X952	2.75	1.93	1.84
E	369C420A01	56	115	2	3 1/2"	—	1 pair	4X406	4X402	4.65	4.38	4.20
F	369C425A01	56	115	1	3 1/2"	—	1 pair	4X406	4X403	4.65	4.38	4.20
G	369C426A02	56	115/230	1 or 2	3 1/2"	—	1 pair	4X406	4X404	4.65	4.38	4.20

Shpg. wt. 2 oz. (#) Types: (1) Thermoguard, Reversible, (2) Non-Thermoguard, Reversible.

WESTINGHOUSE ROTATING SWITCHES

Fig.	Westinghouse Model	NEMA Frame	Type (†)	Motor RPM	Carrier Bore ID (Shaft)	Spool Diameter ID OD	No. Wts.	Use With Stationary Switch No.	Stock No.	Retail	Each	Lots 10
H	369C504A13	48	FH, FHT, FZ	1725	1 1/4"	1" 2 3/8"	3	{ 4X400, 4X401 }	4X405	\$3.35	\$3.15	\$3.01
I	19C6548A1	56	FHT	1725	1 1/4"	—	—	2X614	2X615	3.94	3.15*	—
J	14A9665A25	56	FHT	1725	5/8"	7/8" 1 1/4"	—	2X952	2X953	5.90	5.33	5.30
H	369C505A03	56	FH, FHT, FZ, FJ	1725	5/8"	1" 2 3/8"	3	{ 4X402, 4X403, 4X404 }	4X406	3.35	3.15	3.01

Shpg. wt. 2 oz. (*) While stocks last.
(†) Types; FH, split phase; FHT, split phase, hi-torque; FJ, capacitor 40°C rise; FZ, capacitor 50°C rise.

MOTOR REVERSING SWITCH

For 1 & 3 Phase Motors to 5 HP, 550V Maximum



Dayton
No. 2X440
\$8.15
Lots 4

For starting and reversing motors up to 5 HP on tools, hoists, conveyors, etc. Pure copper forged contacts. Improved action prevents arcing and burning of contacts. Heavy copper drum segments. All parts are renewable. Heavy pressed steel case and frame. No. 2X440 recommended for single phase applications; all others for single phase or polyphase.

MAXIMUM MOTOR HORSEPOWER RATINGS

Stock No.	POLYPHASE 230V		SINGLE PHASE 115V		115-230V DC
	AC	AC	AC	AC	
2X440	1	1 1/2	1 1/2	2	1 1/2
2X441	1 1/2	1 3/4	1 3/4	1 1/2	1 3/4
2X442	3	3	1	2	1
2X443	5	5	1 1/2	3	2

Dimensions V H D	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
4" 4" 4 1/2"	2X440	\$10.65	\$8.60	\$8.15	1
4" 4" 4 1/2"	2X441	13.25	10.70	10.14	1 1/2
5" 5" 5 1/2"	2X442	19.90	16.07	15.22	2 1/2
5" 6 1/2" 5 1/2"	2X443	28.65	23.13	21.92	3 1/2

ELECTRONIC SPEED CONTROL

For AC-DC and Series DC Motors
Variable Speed with Constant Torque



Dayton
5 Amp, Lots 12
\$9.16

Turn of dial permits wide range of speed control from 0 to 80% of full speed for power tools, appliances, sewing machines, grinders, blowers, pumps, gearmotors, and other equipment driven by AC-DC brush-type motors. The variable speed is accomplished without loss of motor torque.

Dial sets speed desired. Electronic feed-back maintains speed, increasing voltage to motor as load increases. Full speed obtained by rotating dial to extreme clockwise position. Two models available; 5 and 10 amp, 115V. Both mount in panels or directly into standard handy boxes. 5 amp model uses existing single gang wall plate, 10 amp uses double gang plate (handy box and wall plate not included). Easy to install and operate. Instructions included. Shpg. wt. 4 and 9 oz. respectively.

QUANTITY & OEM PRICES ON REQUEST

Amps	Stock No.	Each	Lots 3	Lots 6	Lots 12
5	4X796	\$10.72	—	\$9.79	\$9.16
10	4X797	19.63	\$18.22	—	16.84

SEE WARRANTY INFORMATION ON PAGE 684

SOLENOIDS FOR HOME LAUNDRY APPLICATIONS

For Hotpoint, Maytag, Norge, Speed Queen, Philco-Bendix and Other Make Washers and Dryers

Dayton

No. 2X887

\$3.07

Lots 12



No. 2X661



No. 2X662



No. 2X867



No. 2X868



No. 4X317

Most popular pull-type solenoids for reliable replacement service on home laundry washers and dryers. All solenoids have flanged base except No. 2X868 which is channel U type. Terminals are 1/4" spade with bullet adapters for

quick installation. (For Quick-Disconnects, see index under Terminals). Rated 115V, 60 Hz. Individually cartoned; each solenoid is provided with specification sheet covering performance data. Dayton brand.

QUANTITY PRICES QUOTED ON REQUEST

Solenoid Replacement for	Equivalent Solenoid for:			Stock No.	Retail	Each	Lots 12	Shpg. Wt.
	Assco	P & G	United Valve					
Easy 310376	A-7014	SD004	UV7014	2X661	\$6.06	\$4.04	\$3.70	1
Easy 313-920 Hotpoint CE18P2 Maytag 2-382	A-7258M	SD009	UV7258	2X662	9.06	6.04	5.53	2 1/2
Norge 36-0102 Speed Queen 21250	A-7690	SD021F	UV7690	2X867	5.03	3.35	3.07	6 oz.
Philco Bendix 13535, 18420, 18935, 9536-5, 9379-12, 9379-13	A-20717 A-7012	SD002 SD003	UV7467	2X868	5.81	3.87	3.55	1
Speed Queen 20058	7612	SD011	UV7612	4X317	9.06	6.04	5.53	2 1/2

1/3 & 1/2 HP HOME LAUNDRY REPLACEMENT MOTORS

For Many Brands and Models of Automatic Washers, Gas and Electric Dryers

WASHER MOTOR

1/2 HP, 1725/1140 RPM

\$35.42



Replacement for many factory-installed motors on home washers, gas and electric dryers. Split phase, 115V, 60 Hz. Sleeve bearings, 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Automatic reset thermal protection. Installation instructions supplied. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved.

These motors are designed for use on laundry equipment; use on other applications voids warranty. Westinghouse brand.

DRYER MOTOR

1/3 HP, 1725 RPM

\$26.92



WASHER MOTOR replaces all factory-installed motors on Whirlpool and Kenmore single and two-speed automatic washers (except compact models), all Maytag single and two-speed automatic washers built after 1960. Complete installation instructions supplied with each motor.

DRYER MOTOR replaces factory-installed motors in most brands and models of gas and electric dryers, such as Blackstone, Easy, Frigidaire, General Electric, Hamilton, Hotpoint, Maytag, Kelvinator, Norge, Philco-Bendix non-reversing models, Signature built after 1960, Speed Queen and Wizard models with belt around drum. Has resilient rings for mounting to existing motor base on dryer. NEMA 56Z frame. Has two 1/2" dia. shafts; 1 5/8" long shaft on switch end, 1 1/4" long shaft on opposite end.

Type	HP	RPM	Volts 60 Hz	Bearings	Thermal Prot.	Shaft No.	Shaft(s) Dia. Long	Westinghouse Style No.	Stock No.	Retail	Each	Shpg. Wt.
Washer	1/2	1725/1140	115	Sleeve	Auto	1	1/2" 2"	320P304	6K742	\$52.50	\$35.42	19
Dryer	1/3	1725	115	Sleeve	Auto	2	1/2" 1 5/8" & 1 1/4"	320P067	5K898	39.90	26.92	13

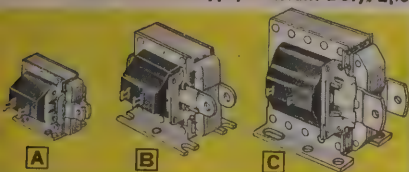
STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 5S1943.

DORMEYER SUPER-T COMMERCIAL SOLENOIDS

Long-Life, Pull-Type, Constant Duty. Epoxy Molded Coil. Four Sizes, 115 and 230VAC



Dormeyer Super-T, pull-type solenoids are made in four standard sizes to meet a wide variety of replacement and original equipment applications such as machine tools, appliances, vending machine equipment, and similar constant-duty applications. Feature epoxy molded coil; stronger, heavier pull bars and other advanced construction designs which assure long life and trouble free service. Class A coil insulation for use with coil temperature of 221°F (105°C) maximum. Terminals, solder lug. 115 or 230V, 60 Hz. Individually cartoned. Dormeyer brand.

For Quick-Disconnects—see Index under Terminals

Fig.	Stock No.		Max. Inch Stroke	POUNDS PULL PER INCH STROKE							SEATED AT 115V(*)	
	115V	230V		1/4"	1/2"	3/4"	7/8"	1"	1-3/8"		Watts	Amps
A	4X239	4X893	3/4"	2	1 1/2	—	—	—	—	—	10.3	0.26
B	4X240	4X894	1 1/4"	6 1/4	6	5 3/4	5	3 3/4	—	—	16.3	.44
B	4X241	4X895	1 1/4"	7 3/4	7	6 1/2	7	6 1/2	—	—	22.3	.50
C	4X242	4X896	1 3/8"	13	12 1/2	15	15	14	10	—	26.0	.60

Fig.	Volts AC	Frame Dimensions			Stack	Mounting Holes on Center	Mfrs. Model	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
		L	W	H								
A	115	1 5/8"	1 1/4"	1 1/8"	1 1/4"	1 1/2"	1000-M-1	4X239	\$7.07	\$4.71	\$3.89	8 oz.
A	230	1 5/8"	1 1/4"	1 1/8"	1 1/2"	1 3/8"	1001-M-1	4X893	7.28	4.85	4.00	8 oz.
B	115	2 1/2"	1 1/4"	2 1/8"	3/4"	2	2005-M-1	4X240	8.66	5.77	4.76	1
B	230	2 1/2"	1 1/4"	2 1/8"	3/4"	2	2006-M-1	4X894	8.93	5.95	4.91	1
B	115	2 1/2"	2 1/4"	2 1/8"	1	2	2536-M-1	4X241	10.25	6.83	5.64	1 1/4
B	230	2 1/2"	2 1/4"	2 1/8"	1	2	2537-M-1	4X895	10.55	7.03	5.80	1 1/4
C	115	3	2 1/4"	2 1/8"	1	2	3000-M-1	4X242	13.79	9.19	7.58	2 3/4
C	230	3	2 1/4"	2 1/8"	1	2	3001-M-1	4X896	14.07	9.38	7.75	2 3/4

(*) Amps for 230V models are half of 115V models. Watts are the same for 115 or 230V.

DORMEYER PUSH OR PULL-TYPE SOLENOIDS

Rugged Versatile Design for Heavy-Duty Machine Applications. 115VAC

No. 4X897 Built for dependable service on machine tools, appliances, vending machines and similar original equipment. Also used on a wide variety of replacement applications. Plunger may be attached at either end depending on whether a push or pull action is required. Class A coil insulation for use at temperatures not exceeding 230°F., (105°C.), with a maximum temperature rise of 120°F., (65°C.). 12" leads. 115V, 60 Hz. Individually cartoned.

\$6.92

SOLENOID PERFORMANCE

Fig.	Type Duty	Stock No.	Max. Inch Stroke	LBS. PUSH OR PULL PER:				SEATED AT 115V	
				1/4"	1/2"	3/4"	1"	Watts	Amps
A	Constant	4X897	1"	1.8	1.8	1.8	1.2	7.0	0.21
B	Intermittent†	4X898	1	5.0	6.0	6.0	6.0	23.0	0.85

Fig.	Type Duty	Frame Dimensions			Stack	Mounting Holes on Center	Mfrs. Model	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
		L	W	H								
A	Constant	2 1/2"	1 1/4"	2 1/8"	3/4"	2"	14-1	4X897	\$11.39	\$7.59	\$6.92	1
B	Intermittent	2 1/2"	2 1/4"	2 1/2"	1	2	7110-2A	4X898	19.47	12.98	11.90	2

(†) Intermittent duty cycle. Maximum 25% on time and 75% off time. On time not to exceed more than 3 minutes at 25°C. (room temperature) ambient temperature.

STEWART-WARNER 4000 RPM PORTABLE TACHOMETER

Easy-Reading Scale. Accurate Within 2%. CW or CCW

\$13.77

Lots 6

plus or minus 2%. 2 1/2" dia. scale divided in 50 and 100 RPM steps, large numerals every 500 RPM.

Has magnetic damper for steady pointer indication. With cup-shaped tip for flat-end shafts, cone-shaped tip for shafts with center holes. Magnetic mechanism is enclosed in dust and waterproof steel case. 2 3/4" dia. 4" long overall. Stewart-Warner brand (757W). Shpg. wt. 14 oz.

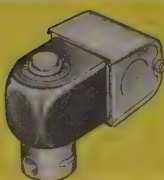
No. 2X132. Retail \$25.50. Each \$15.81; lots 6.....\$13.77



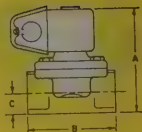
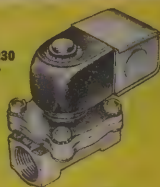
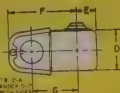
90-DAY LIMITED WARRANTY

See Limited Warranty Policy in Index

SEE WARRANTY INFORMATION ON PAGE 684



\$11.79 No. 6X230
Lots 4



**Nos. 6X230, 6X080
Solenoid Valves**

**Coil Assembly,
All Models**

**Nos. 6X081, 6X082, 6X083, 6X231,
6X537, 6X538, 6X539, 6X540,
6X541 Solenoid Valves**

Two-way, normally closed solenoid valves are used in distribution piping systems to meter the flow of water, air, low pressure steam and other non-corrosive and non-flammable liquids and gases. Units are rated in accordance with standards sanctioned by the Fluid Control Institute, Inc. and National Fluid Power Assoc. Solenoid valves include all-brass body, Class F molded coil that is continuous-duty rated and operated on 120V, 50/60 Hz, and large junction box with snap-on cover and 3/8" dia. conduit

hole. Valve can be mounted in any position. General-purpose solenoid valves have a Buna-N diaphragm with fluid rating of 180°F. Low pressure steam solenoid valves have an ethylene propylene diaphragm for hot water (210°F) or low pressure steam (250°F); operate to zero minimum pressure. Typical applications include car washes, vending machines, industrial washing machines, sprinkler systems, compressed air aftercoolers, etc. UL and CSA listed. Dayton brand.

GENERAL-PURPOSE SOLENOID VALVES

Pipe Size	Orifice Size	OPD* Range, PSI	** Cv	Maximum Operating Pressure, PSI	Max. Air Flow, SCFM	Max. Water Flow, GPM†	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
1/8"	3/32"	0-300	0.22	500	34	3.8	6X230	\$14.93	\$12.34	\$11.79	1 1/2
1/4"	1/8"	0-150	.34	500	28	4.2	6X080	16.72	13.82	13.21	1 1/2
3/8"	3/16"	5-150	2.8	300	226	34.4	6X081	32.74	27.06	25.86	2 1/2
1/2"	1/4"	5-150	3.6	300	292	44.2	6X082	32.74	27.06	25.86	2
3/4"	3/8"	5-125	5.5	300	380	61.5	6X083	39.09	32.31	30.88	2 1/2
1"	1"	5-125	13.0	250	910	139.5	6X231	63.22	52.25	49.94	4
1 1/4"	1 1/4"	5-250	16.0	300	2112	267.0	6X537	75.75	62.79	59.59	6
1 1/2"	1 1/2"	5-250	25.0	300	3300	400.0	6X538	104.50	86.63	82.22	8 1/2

LOW PRESSURE STEAM AND HOT WATER SOLENOID VALVES

Pipe Size	Orifice Size	OPD*			Maximum Operating Pressure, PSI		Max. Steam Flow, Lb./Hr.	Max. Water Flow, GPM†	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
		Range, Steam	PSI Water	** Cv	Steam	Water							
3/8"	5/8"	0-15	0-100	2.8	15	300	129	28	6X539	\$40.25	\$36.53	\$35.15	2 1/2
1/2"	5/8"	0-15	0-100	3.6	15	300	165	36	6X540	40.25	36.53	35.15	2 1/2
3/4"	5/8"	0-15	0-100	5.5	15	300	253	55	6X541	46.00	40.15	38.00	2 1/2

(*) OPD—Operating Pressure Differential. (**) Cv—Coefficient of volume: The amount of water in GPM at standard conditions (60°F, specific gravity=1) which will pass through the valve with a one PSI pressure drop and the valve in a full open position. (†) Flow rates based on max. OPD at inlet and AC operation.

DIMENSIONS & INDUSTRY CROSS REFERENCE GUIDE

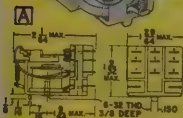
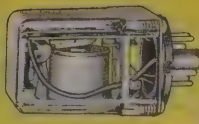
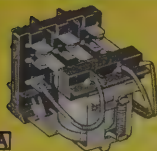
Pipe Size	Stock No.	Solenoid Valve Dimensions				Coil Assembly Dimensions				Cross Reference Guide			
		A	B	C#	Width§	D	E	F	G	ASCO Valve	ALCO Valve	Skinner Valve	
1/8"	6X230	2 3/8"	1 3/8"	1 1/4"	Rd. 1	9/16"	3/4"	2 11/16"	1 3/8"	8262C14	202CB1 3/8" B	C2DA113;	
1/4"	6X080	2 7/8"	1 1/2"	1 1/8"	Rd. 1	1 1/16"	3/4"	2 11/16"	1 3/8"	8262C22	204CD 1/2" B	V520B225	
3/8"	6X081	3 1/2"	2 3/4"	2 1/8"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210C73	210CA 3/8" B	L2DA315A	
1/2"	6X539	3 1/2"	2 3/4"	2 1/8"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210C93HW	211CA 3/8" B 5/8" P	L2DA415A	
1/2"	6X082	3 1/2"	2 3/4"	2 1/8"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210D2	210CA 3/8" B		
1/2"	6X540	3 1/2"	2 3/4"	2 1/8"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210C94HW	211CA 3/8" B 5/8" P	L2DA515A	
3/4"	6X083	3 3/4"	2 13/16"	1 1/2"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210D3	210CA 3/8" B		
3/4"	6X541	3 3/4"	2 13/16"	1 1/2"	2 5/16"	1 1/8"	3/4"	2 11/16"	1 3/8"	8210D9HW	211CA 3/8" B 5/8" P	L2DA615A	
1"	6X231	4 3/4"	3 1/2"	3 1/8"	3 1/2"	1 1/2"	3/4"	2 11/16"	1 3/8"	8210D4	210CA 1" B1B		
1 1/4"	6X537	5 1/2"	4 1/8"	1 1/2"	3 1/8"	1 1/2"	3/4"	2 11/16"	1 3/8"	8210D8	222CB1 1/2" B1 1/2" B		
1 1/2"	6X538	6 1/2"	5 1/4"	1 3/8"	3 7/16"	1 1/2"	3/4"	2 11/16"	1 3/8"	8210B35	222CB1 1/2" B1 1/2" B		

(f) Pipe center. (§) Width of body.

REPLACEMENT OPERATING COILS

Fit all solenoid valves listed above. Continuous-duty rated, Class F molded coil, large junction box with snap-on cover and 3/8" dia. conduit hole. Easily installed or removed. Dayton brand.

Coil Voltage 50/60 Hz, 1 Phase	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
24	6X542	\$6.90	\$6.06	\$5.75	1
120	6X543	6.90	6.06	5.75	1
240	6X544	6.90	6.06	5.75	1



No. 5X852
Octal 8 Pin
Socket

General purpose open and plug-in relays are designed for reliability and ease of installation in new or existing applications. Ideally suited for starting and switching small motors, vending machines, laundry equipment, machine tools,

etc. Gold flashed silver cadmium oxide contacts rated 1/4 HP 120VAC, 1/3 HP 240VAC, 10 amp at 28VDC or 120VAC, 80% power factor. Pull in at 85% or less of nominal voltage at 80°F. 1000V RMS insulation between circuits and frame.

SQUARE SURFACE MOUNT & PLUG-IN RELAYS

A Open Type. Use Dayton socket with quick-connect terminals (below) or solder directly to terminals. Shpg. wt. 1 oz. UL recognized.

B Enclosed Type. Terminal block of relay doubles as plug, eliminating internal wiring.

Polycarbonate enclosure protects contacts from dirt and dust. Shpg. wt. 8 oz. UL recognized.

OCTAL PLUG-IN RELAYS

C Enclosed Type. Widely used where contacts need to be protected from airborne dust and dirt. High impact polycarbonate case. Wt. 3 oz.

OPEN STYLE RELAYS

Fig.	Coll VAC	Action	Socket Type	Coil Power	Stock No.	Retail	Each	Lots 10	Lots 25	Lots 50	Lots 100
A	12	SPDT	Square 11 Pin	2.5 VA	5X812	\$4.91	\$3.93	\$3.68	\$3.50	\$2.95	\$2.80
A	24	SPDT	Square 11 Pin	2.5 VA	5X813	4.91	3.93	3.68	3.50	2.95	2.80
A	115	SPDT	Square 11 Pin	2.5 VA	5X814	4.91	3.93	3.68	3.50	2.95	2.80
A	230	SPDT	Square 11 Pin	2.5 VA	5X815	5.53	4.42	4.15	3.94	3.32	3.15
A	12	DPDT	Square 11 Pin	2.5 VA	5X816	6.16	4.93	4.62	4.39	3.70	3.51
A	24	DPDT	Square 11 Pin	2.5 VA	5X817	6.16	4.93	4.62	4.39	3.70	3.51
A	115	DPDT	Square 11 Pin	2.5 VA	5X818	6.16	4.93	4.62	4.39	3.70	3.51
A	230	DPDT	Square 11 Pin	2.5 VA	5X819	6.75	5.40	5.06	4.81	4.05	3.85
A	24	3PDT	Square 11 Pin	2.5 VA	5X820	6.96	5.57	5.22	4.96	4.18	3.97
A	115	3PDT	Square 11 Pin	2.5 VA	5X821	6.94	5.55	5.21	4.94	4.16	3.96

SQUARE PLUG-IN ENCLOSED RELAYS

B	24	SPDT	Square 11 Pin	2.5 VA	5X834	5.27	4.22	3.95	3.75	3.16	3.00
B	115	SPDT	Square 11 Pin	2.5 VA	5X835	5.27	4.22	3.95	3.75	3.16	3.00
B	230	SPDT	Square 11 Pin	2.5 VA	5X836	5.84	4.67	4.38	4.16	3.50	3.33
B	24	DPDT	Square 11 Pin	2.5 VA	5X837	6.49	5.19	4.87	4.62	3.89	3.70
B	115	DPDT	Square 11 Pin	2.5 VA	5X838	6.49	5.19	4.87	4.62	3.89	3.70
B	230	DPDT	Square 11 Pin	2.5 VA	5X839	7.12	5.70	5.34	5.07	4.27	4.06
B	24	3PDT	Square 11 Pin	2.5 VA	5X840	7.32	5.86	5.49	5.22	4.39	4.17
B	115	3PDT	Square 11 Pin	2.5 VA	5X841	7.32	5.86	5.49	5.22	4.39	4.17
B	230	3PDT	Square 11 Pin	2.5 VA	5X842	7.92	6.34	5.94	5.64	4.75	4.51

OCTAL PLUG-IN ENCLOSED RELAYS

C	12	SPDT	Octal 8 Pin	3 VA	5X822	8.60	6.88	6.45	6.13	5.16	4.90
C	24	SPDT	Octal 8 Pin	3 VA	5X823	8.60	6.88	6.45	6.13	5.16	4.90
C	115	SPDT	Octal 8 Pin	3 VA	5X824	8.60	6.88	6.45	6.13	5.16	4.90
C	12	DPDT	Octal 8 Pin	3 VA	5X825	9.64	7.71	7.23	6.87	5.78	5.49
C	24	DPDT	Octal 8 Pin	3 VA	5X826	9.64	7.71	7.23	6.87	5.78	5.49
C	115	DPDT	Octal 8 Pin	3 VA	5X827	9.64	7.71	7.23	6.87	5.78	5.49

SOCKETS FOR PLUG-IN RELAYS

D Octal Sockets. For surface mounting. Molded high impact plastic. Closed back eliminates insulation problems. 10 amps, 300VAC.

Square Sockets. Nylon socket is chassis mount. Plastic sockets for surface mount. Closed back eliminates insulation problems. 10 amps, 300VAC.

Type Socket	No. Pins	Terminals	Construction	Stock No.	Retail	Each	Lots 10	Lots 25	Lots 50	Lots 100	Shpg. Wt.
Octal	8	Screw	Plastic	5X852	\$2.18	\$1.74	\$1.64	\$1.55	\$1.31	\$1.24	3 oz.
Octal	11	Screw	Plastic	6X156	5.58	4.46	4.19	3.98	3.35	3.18	2 oz.
Square	11	Screw	Plastic	5X853	5.22	4.18	3.92	3.72	3.13	2.98	3 oz.
Square	11	Quick-Connect	Nylon	5X854	1.32	1.06	.99	.94	.79	.75	3 oz.

RELAY PART NUMBER INTERCHANGE GUIDE—SEE DETAILS ON PAGE 143

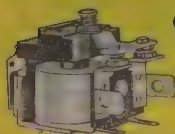
SEE WARRANTY INFORMATION ON PAGE 684

25, 30 & 50 AMP, 1 & 1½ HP POWER RELAYS

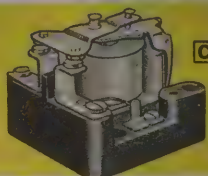
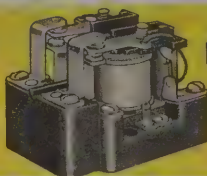
24, 115 and 230VAC Coils. SPST or DPDT Combinations. Silver Cadmium Contacts

Heavy duty power relays for controlling motors up to 1½ HP used in switching applications such as elevators, machine tools, fans, etc. Hinge pin design. Large silver cadmium oxide contacts are

gold flashed. Insulation between circuit and frame is 1000V RMS for Fig. A, 1500V RMS for Fig. B and C. Pull in at 85% of nominal voltage or less at 80°F.



Dayton



A 50 Amp 1 HP Relays. Compact SPST normally open (NO) double make (DM). Movable contacts on molded phenolic barrier, stationary contacts on stable glass melamine terminal board. Solder or quick connect terminals (contacts accept 0.250" terminals, coil 0.187"). Mounts on one #6-32 mounting stud. Shpg. wt. 6 oz. 1½" L, 1½" W, 1½" H. Not UL listed.

B 25 Amp 1 HP Relays. DPDT action. Contacts on full floating movable carrier for maximum wipe, contact pressure. 1-piece molded bakelite base with barriers between arms to prevent cross arcing. Terminals are binder head screw #6-32 for coil, #8-32 for contacts. Mounts on two ¾" dia. holes. UL listed. Shpg. wt. 14 oz. 3½" L, 2½" W, 2½" H. Dayton.

C 30 Amp 1½ HP Relays. SPST normally open (NO) double make (DM). Hinge pin design, molded nylon bobbin and adjustment stability for long service life. Binder head screw terminals—#6-32 for coil, #8-32 for contacts. One piece molded bakelite base mounts on two ¾" dia. holes. UL listed. Shpg. wt. 14 oz. 2½" L, 2½" W, 2½" H. Dayton brand.

50 AMP RESISTIVE LOAD, 1 HP SPST-NO-DM RELAYS

Fig.	Coil VAC	Coil Volts, Nominal	Power No.	Stock No.	Retail	Each	Lots 6	Lots 10	Lots 12	Lots 24	Lots 25	Lots 48	Lots 50	Lots 100
A	24	3VA		5X809	\$6.23	\$4.98	—	\$4.67	—	—	\$4.44	—	\$3.74	\$3.55
A	115	3VA		5X810	6.23	4.98	—	4.67	—	—	4.44	—	3.74	3.55
A	230	3VA		5X811	6.88	5.50	—	5.16	—	—	4.90	—	4.13	3.92

25 AMP RESISTIVE LOAD, 1 HP DPDT RELAYS

B	24	10VA		5X846	10.55	7.12	\$6.55	—	\$6.15	\$5.80	—	\$5.64	—	—
B	115	10VA		5X847	10.55	7.12	6.55	—	6.15	5.80	—	5.64	—	—
B	230	10VA		5X848	11.22	7.58	6.97	—	6.55	6.17	—	6.00	—	—

30 AMP RESISTIVE LOAD, 1½ HP SPST-NO-DM RELAYS

C	24	10VA		5X849	6.86	5.50	5.08	—	4.80	4.55	—	4.40	—	—
C	115	10VA		5X850	6.86	5.50	5.08	—	4.80	4.55	—	4.40	—	—
C	230	10VA		5X851	7.53	6.04	5.58	—	5.27	5.00	—	4.83	—	—

PLUG-IN TIME DELAY RELAYS

DPDT. 10 Amp Contacts. 3 Adjustable Timing Ranges. Dayton Brand

Economical, solid state DPDT time delay relay for new or replacement applications. Widely used in automatic control circuits, machine tool programming, sequencing controls, heating and cooling operations, warmup delays, etc. Three adjustable timing ranges: 1-10 second, 1-180 second, 2-300 second. Top mounted delay adjustment knob with graduated scale. Coil wired for 115VAC. Contacts rated 1/4 HP 120VAC, 1/3 HP 240VAC, 10 Amp at 28VDC or 120VAC, 80% power factor. 100 millisecond reset time. ±2% repeatability under fixed, stable conditions. High impact dust cover. 2½% L, 1¾" W, 3¾" H overall.

SLOW OPERATE TYPE. Time delay functional on application of input power: At end of delay, output contacts operate. Standard 8-pin octal plug fits Dayton screw terminal socket No. 5X852 listed on nearby page.

SLOW RELEASE TYPE. Time delay functional upon closing of external switch: Upon opening of external switch, delay cycle begins; on completion of pre-selected time cycle, relay is de-energized. Standard 11-pin octal plug fits Dayton screw terminal socket No. 6X156 listed on nearby page.

Dayton



Timing Range	Type Relay	Stock No.	Retail	Each	Lots 6	Lots 12	Lots 24	Shpg. Wt.
1-10 Sec.	Slow Operate	5X828	\$33.66	\$21.89	\$20.22	\$19.20	\$16.83	4 oz.
1-180 Sec.	Slow Operate	5X829	33.66	21.89	20.22	19.20	16.83	4 oz.
2-300 Sec.	Slow Operate	5X830	33.66	21.89	20.22	19.20	16.83	4 oz.
1-10 Sec.	Slow Release	6X153	40.91	26.60	24.57	23.33	20.45	6 oz.
1-180 Sec.	Slow Release	6X154	40.91	26.60	24.57	23.33	20.45	6 oz.
2-300 Sec.	Slow Release	6X155	40.91	26.60	24.57	23.33	20.45	6 oz.

RELAY PART NUMBER INTERCHANGE GUIDE—SEE DETAILS ON NEXT PAGE

RELAY PART NUMBER INTERCHANGE GUIDE

Lists Part Nos. of 16 Popular Relay Brands alongside Closest Comparable Grainger Stock Nos.

Brand Part No.	Grainger Stock No.	Brand Part No.	Grainger Stock No.	Brand Part No.	Grainger Stock No.	Brand Part No.	Grainger Stock No.
Potter & Brumfield		W388ACPX-3		CP Clare (Cont'd)		Line Electric (Cont'd)	
CHB38-70001	5X828	W388ACPX-4	5X834	GP2R211AA-7000	5X815	STA2AD-PDT24	5X846
CHB38-70003	5X829	W388ACPX-5	5X835	GP2R221AA-1000	5X816	STA2AD-PDT115	5X847
CHB38-70011	5X153	W388ACPX-6	5X836	GP2R221AA-2000	5X817	STA2AD-PDT230	5X848
CHB38-70013	5X154	W388ACPX-7	5X837	GP2R221AA-6000	5X818	STMKASPS-	
KRD11AG-24VAC	5X831	W388ACPX-8	5X838	GP2R221AA-7000	5X819	TNODB24	5X849
KRD11AG-115VAC	5X832	W388ACPX-9	5X839	GP2R231AA-2000	5X820	STMKASPS-	
KRD14AG-115VAC	5X833	W388ACPX-10	5X840	GP2R231AA-6000	5X821	TNODB115	5X850
KRP5AG-12VAC	5X822	W388ACPX-11	5X841	GP3R211AA-2000	5X834	STMKASPS-	
KRP5AG-24VAC	5X823	W388ACPX-12	5X842	GP3R211AA-6000	5X835	TNODB220	5X851
KRP5AG-115VAC	5X824	Deltronic Controls		GP3R211AA-7000	5X836	92-20	5X852
KRP11AG-24VAC	5X825	20106-81	5X822	GP3R221AA-2000	5X837	92-86	5X156
KRP11AG-24VAC	5X826	20106-82	5X823	GP3R221AA-6000	5X838	92-112	6X854
KRP11AG-115VAC	5X827	20106-84	5X824	GP3R221AA-7000	5X839	Paragon Electric	
KU5A15-12VAC	5X812	20106-88	5X825	GP3R231AA-2000	5X840	HP31AC24V	5X834
KU5A15-24VAC	5X813	20300-81	5X812	GP3R231AA-6000	5X841	HP31AC115V	5X835
KU5A15-115VAC	5X814	20300-82	5X813	GP3R231AA-7000	5X842	HP31AC220V	5X836
KU5A15-230VAC	5X815	20300-84	5X814	GPS3002	5X843	HP32AC24V	5X837
KU1A15-12VAC	5X816	20300-85	5X815	TLBR1A-0010	5X153	HP32AC115V	5X838
KU1A15-24VAC	5X817	20301-81	5X816	TLBR1A-0300	5X155	HP32AC220V	5X839
KU1A15-115VAC	5X818	20301-82	5X817	TLMA1A-0010	5X828	HP33AC24V	5X840
KU1A15-230VAC	5X819	20301-85	5X818	TLMA1A-0180	5X829	HP33AC115V	5X841
KU1A15-24VAC	5X820	20302-82	5X820	TLMA1A-0300	5X830	HP33AC220V	5X842
KU1A15-115VAC	5X821	20302-84	5X821	Struthers Dunn		545-011-0	5X828
KU5A15-24VAC	5X834	20305-84	5X835	283XAX-12VAC	5X812	545-023-0	5X829
UP5A15-120VAC	5X835	20305-85	5X836	283XAX-24VAC	5X813	545-111-0	5X153
UP5A15-240VAC	5X836	20306-82	5X834	283XAX-120VAC	5X814	545-123-0	6X154
UP11A15-24VAC	5X837	20307-82	5X837	283XAX-230VAC	5X815	RBM—Essex	
UP11A15-120VAC	5X838	20307-84	5X838	283XAXC-24A	5X834	93P-904	5X823
UP11A15-240VAC	5X839	20307-85	5X839	283XAXC-115A	5X835	93P-905	5X826
UP14A15-24VAC	5X840	20308-82	5X840	283XAXC-230A	5X836	93P-907	5X824
UP14A15-120VAC	5X841	20308-85	5X842	283XBX-12VAC	5X816	93P-908	5X827
UP14A15-240VAC	5X842	900ACDPD-T24	5X846	283XBX-24VAC	5X817	93P-955	5X822
R3AY-24	5X849	900ACDPD-T115	5X847	283XBX-120VAC	5X818	93P-956	5X825
R3AY-115	5X850	900ACDPD-T230	5X848	283XBX-230VAC	5X819	Guardian	
R3AY-230	5X851	900ACSPST-DM24	5X849	283XBX-24A	5X837	1210-1C-12A	5X822
R11AY-24	5X846	900ACSPST-DM115	5X850	283XBX-115A	5X838	1210-1C-24A	5X823
11AY-115	5X847	900ACSPST-DM230	5X851	283XBX-230A	5X841	1210-1C-115A	5X824
11AY-230	5X848	Midtex		283XCX-24VAC	5X820	1210-2C-12A	5X825
R31	5X852	155-91P200	5X822	283XCX-120VAC	5X821	1210-2C-24A	5X826
R32	5X156	155-91Q200	5X823	283XCX-24A	5X840	1210-2C-120A	5X827
R33	5X853	155-91T200	5X824	283XCX-115A	5X841	2200UDPDT-24	5X846
R34	5X854	155-92P200	5X825	283XCX-230A	5X842	2200UDPDT-115	5X847
R35	5X855	155-92Q200	5X826	Sigma		2200UDPDT-230	5X848
R36	5X856	155-92T200	5X827	50R01-12AC-SCO	5X822	Cornell Dubilier	
R37	5X857	157-11P200	5X812	50R01-24AC-SCO	5X823	311A10-12V	5X822
R38	5X858	157-11Q200	5X813	50R01-115AC-SCO	5X824	311A10-24V	5X823
R39	5X859	157-11T200	5X814	50R02-12AC-SCO	5X825	311A10-115V	5X824
R40	5X860	157-11U200	5X815	50R02-24AC-SCO	5X826	312A10-12V	5X825
R41	5X861	157-12P200	5X816	50R02-115AC-SCO	5X827	312A10-24V	5X826
R42	5X862	157-12Q200	5X817	68F1-12AC-SCO	5X812	312A10-115V	5X827
R43	5X863	157-12T200	5X818	68F1-24AC-SCO	5X813	Allied Control	
R44	5X864	157-12U200	5X819	68F1-115AC-SCO	5X814	TD120115AC-BN	5X830
R45	5X865	157-13Q200	5X820	68F1-230AC-SCO	5X815	TD120115AC-CN	5X828
R46	5X866	157-13T200	5X821	68F2-12AC-SCO	5X816	Agastat	
R47	5X867	157-13U200	5X822	68F2-24AC-SCO	5X817	3712B11D	5X828
R48	5X868	157-14Q200	5X823	68F2-115AC-SCO	5X818	3712B11F	5X829
R49	5X869	157-14T200	5X824	68F2-230AC-SCO	5X819	3712B12G	5X830
R50	5X870	157-14U200	5X825	68F3-24AC-SCO	5X820	3722B12B	5X153
R51	5X871	157-15Q200	5X826	68F3-115AC-SCO	5X821	3722B12F	5X155
R52	5X872	157-15T200	5X827	68R1-24AC-SCO	5X834	3722B12G	5X156
R53	5X873	157-15U200	5X828	68R1-115AC-SCO	5X835	3722B12H	5X157
R54	5X874	157-16Q200	5X829	68R1-230AC-SCO	5X836	Intermatic	
R55	5X875	157-16T200	5X830	68R2-24AC-SCO	5X837	SS12222II	5X828
R56	5X876	157-16U200	5X831	68R2-115AC-SCO	5X838	SS12222KK	5X829
R57	5X877	157-17Q200	5X832	68R2-230AC-SCO	5X839	SS13622II	5X153
R58	5X878	157-17T200	5X833	68R3-24AC-SCO	5X840	SS13622KK	5X154
R59	5X879	157-17U200	5X834	68R3-115AC-SCO	5X841	Syracuse	
R60	5X880	157-18Q200	5X835	68R3-230AC-SCO	5X842	403TLR-0030A	5X828
R61	5X881	157-18T200	5X836	Line Electric		403TLR-00317	5X829
R62	5X882	157-18U200	5X837	MKP1A-12	5X822	403TLR-00321	5X830
R63	5X883	157-19Q200	5X838	MKP1A-24	5X823	403DLR-00304	5X153
R64	5X884	157-19T200	5X839	MKP1A-115	5X824	403DLR-00317	5X154
R65	5X885	157-19U200	5X840	MKP2A-12	5X825	403DLR-00321	5X155
R66	5X886	157-20Q200	5X841	MKP2A-24	5X826	SEE WARRANTY INFORMATION ON PAGE 684	
R67	5X887	157-20T200	5X842	MKP2A-115	5X827	143	
R68	5X888	157-20U200	5X843	CP Clare			
R69	5X889	157-21Q200	5X844	CP2R211AA-1000	5X812		
R70	5X890	157-21T200	5X845	CP2R211AA-2000	5X813		
R71	5X891	157-21U200	5X846	CP2R211AA-6000	5X814		
R72	5X892	157-22Q200	5X847				
R73	5X893	157-22T200	5X848				
R74	5X894	157-22U200	5X849				
R75	5X895	157-23Q200	5X850				
R76	5X896	157-23T200	5X851				
R77	5X897	157-23U200	5X852				
R78	5X898	157-24Q200	5X853				
R79	5X899	157-24T200	5X854				
R80	5X900	157-24U200	5X855				
R81	5X901	157-25Q200	5X856				
R82	5X902	157-25T200	5X857				
R83	5X903	157-25U200	5X858				
R84	5X904	157-26Q200	5X859				
R85	5X905	157-26T200	5X860				
R86	5X906	157-26U200	5X861				
R87	5X907	157-27Q200	5X862				
R88	5X908	157-27T200	5X863				
R89	5X909	157-27U200	5X864				
R90	5X910	157-28Q200	5X865				
R91	5X911	157-28T200	5X866				
R92	5X912	157-28U200	5X867				
R93	5X913	157-29Q200	5X868				
R94	5X914	157-29T200	5X869				
R95	5X915	157-29U200	5X870				
R96	5X916	157-30Q200	5X871				
R97	5X917	157-30T200	5X872				
R98	5X918	157-30U200	5X873				
R99	5X919	157-31Q200	5X874				
R100	5X920	157-31T200	5X875				
R101	5X921	157-31U200	5X876				

SEE WARRANTY INFORMATION ON PAGE 684

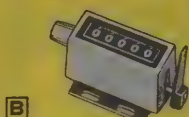
MECHANICAL AND ELECTRICAL COUNTERS

For In-Plant Production Counting, Machine Tools, Vending Machines, OEM Equipment, Etc.

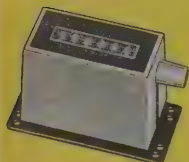
REDINGTON



Mechanical Stroke, Knob Reset, Base Mount



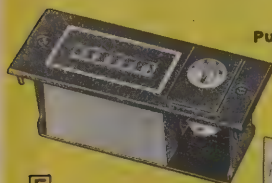
Mechanical Stroke, Knob Reset, Base Mount



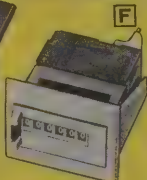
Electric Impulse, Knob Reset, Base Mount



Electric Impulse, Dial Reset, Panel Mount



Electric Impulse, Key Reset, Panel Mount



Electric Impulse, Pushbutton Reset, Panel Mount



Electric Impulse, Non-Resettable, Base Mount



Hand Operated, Flick Reset Mechanism

6X157, Mech.

\$9.34

Lots 10

6X163, Elec.

\$4.69

Lots 10

Attractive, easy-to-install counters with rugged, maintenance-free construction features. Large dials with white-on-black numerals record up to 999,999 counts at 1000 counts per minute. Electric impulse units operate on 115V, 25/60 Hz and are UL recognized and CSA listed.

A, B MECHANICAL STROKE COUNTERS, Nos. 6X157, 6X158. Add one count with 40 to 45° or 26 to 49° movement of spring-loaded operating ratchet. For most in-plant equipment with a camming, stroke, hand or reciprocating motion. Manual reset. Ratchet arm for No. 6X157 has a spring assembly to simplify installation; No. 6X158 has a 25° pre-travel and 11° overtravel feature for easy adjustment. Interchangeable with most similar Veeder Root and Durant mechanical counters.

C, D ELECTRIC IMPULSE COUNTERS, Nos. 6X159, 6X160. General-purpose manual reset counters for installation on industrial equipment or in a remote panel to count any object or movement that can be sensed electrically. Operate at 1000 counts per minute. No. 6X159 is base mounted, No. 6X160 panel mounted. Interchangeable with most general-purpose counters.

E ELECTRIC IMPULSE COUNTER, No. 6X161. Similar to (C) and (D) above but with manual lock and key reset feature to control resetting. Interchangeable with Durant, ITT, Veeder Root.

F ELECTRIC IMPULSE COUNTER, No. 6X162. Supplied with plug-in socket box for easy field replacement. Manual pushbutton reset. Replaces most German and Swiss counters utilizing a 1 1/2 x 3/4" (50 x 25 mm) panel opening. Operates at 1000 counts per minute.

G ELECTRIC IMPULSE COUNTER, No. 6X163. Economical, non-resettable counter for test labs, coin operated equipment and other moderate duty applications. Rated at 500 counts per min.

H HAND OPERATED COUNTER, No. 6X164. Used for a wide range of industrial, recreational and institutional counting jobs. Easy to operate. Has flick reset mechanism. Wrist strap included.

MOUNTING DIMENSIONS

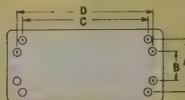


Figure 1

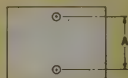


Figure 2

Key	Stock No.	Fig. Ref.	Dimensions			
			A	B	C	D
A	6X157	1	1.201"	—	0.807"	—
B	6X158	1	1.210	—	0.835	—
C	6X159	1	1.360	0.88"	3.235	3.317"
D	6X160*	1	1.510	—	4.070	—
E	6X161*	1	1.760	—	5.135	—
F	6X162*	2	1.500	—	—	—
G	6X163	1	1.750	—	1.010	—

(*) Panel mount; all others are base mount.

Key	Type	No. Figures	Max. Counts Per Min.	Mfrs. Model	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
A	Mech. Stroke, Reset	5	600	CU 35	6X157	\$12.80	\$9.84	\$9.34	4 oz.
B	Mech. Stroke, Reset	5	1000	1-2035	6X158	15.35	11.80	11.20	4 oz.
C	Elec. Impulse, Reset	6	1000	2-1006-115 AC	6X159	27.60	21.27	20.10	1 1/4
D	Elec. Impulse, Reset	6	1000	P2-1006-115 AC	6X160	30.15	23.38	22.11	1 1/4
E	Elec. Impulse, Key Reset	6	1000	P2-1026-115 AC	6X161	41.70	32.11	30.45	1 1/4
F	Elec. Impulse, Reset	6	1000	F2-3106-115 AC	6X162	48.80	37.51	35.50	8 oz.
G	Elec. Impulse, Non-Reset	5	500	2-1525-115 AC	6X163	7.00	4.97	4.69	8 oz.
H	Hand Operated, Reset	4	—	1-1804	6X164	11.55	8.90	8.36	6 oz.

Cramer ELAPSED TIME INDICATORS

Resettable & Non-Resettable Types. Operates On 115V, 60 Hz. UL Listed



PUSHBUTTON RESETTABLE

No. 6X140
1 1/2" Round Bezel

\$26.63

Lots 6



No. 6X142
1 1/2" Square Bezel

\$26.63

Lots 6



NON-RESETTABLE

No. 6X136
1 1/2" Round Bezel

\$11.54

Lots 6



No. 6X138
1 1/2" Square Bezel

\$11.54

Lots 6

Compact, top quality elapsed time indicators for use on test and recording equipment, for registering production time, for implementing an efficient preventive maintenance program, or for any other application where the function to be measured can be related to time. Units are equipped with 115V, 60 Hz, permanent magnet motor for exceptional accuracy—plus or minus 50 milliseconds per start or stop, 100% when running at normal frequency. Resettable models register elapsed time up to 9999.9 in seconds or hours, also have a pushbutton reset which is faster and more reliable than the

conventional thumbwheel reset. Non-resettable units register elapsed time up to 99999.9 in minutes or hours. Gear and pinion type 1" dia. counter wheels have large, easy-to-read numbers. Whole numbers are white against black background, decimal number is black on white background. High impact black styrene housing with molded-on round or square bezels (faces)—except No. 6X144 3 1/2" model has NEMA standard round and square detachable bezels. Continuous duty cycle. Equipped with 22 ga. wire leads, 6" long. Mount in 2 1/4" dia. hole, hardware included. UL listed. Cramer brand.

Registers Elapsed Time Up To:	Bezel (Face)	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
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PUSHBUTTON RESETTABLE ELAPSED TIME INDICATORS

9999.9 Sec.	2 1/2" Round	636X	6X140	\$31.15	\$28.04	\$26.63	10 oz.
9999.9 Hrs.	2 1/2" Round	636X	6X141	31.15	28.04	26.63	10 oz.
9999.9 Sec.	2 1/2" Square	636Y	6X142	31.15	28.04	26.63	10 oz.
9999.9 Hrs.	2 1/2" Square	636Y	6X143	31.15	28.04	26.63	10 oz.

NON-RESETTABLE ELAPSED TIME INDICATORS

99999.9 Min.	2 1/2" Round	635G	6X136	\$13.50	\$12.15	\$11.54	10 oz.
99999.9 Hrs.	2 1/2" Round	635G	6X137	13.50	12.15	11.54	10 oz.
99999.9 Min.	2 1/2" Square	635K	6X138	13.50	12.15	11.54	10 oz.
99999.9 Hrs.	2 1/2" Square	635K	6X139	13.50	12.15	11.54	10 oz.
99999.9 Hrs.	3 1/2" Rd. & Sq.*	635E & S	6X144	13.50	12.15	11.54	10 oz.

* Has two detachable bezels, one round and one square.

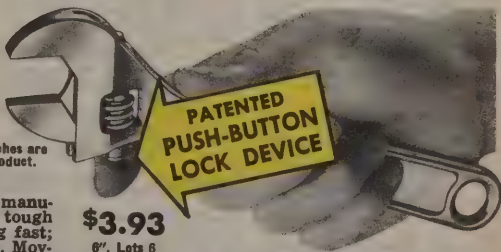
Dayton

NO-SLIP WRENCHES

CLICK OF FINGER INSTANTLY
LOCKS OR UNLOCKS OPENING

LIFETIME LIMITED WARRANTY—Dayton wrenches are warranted to the original user for the life of the product. See Limited Warranty Policy in Index

Industrial-quality wrenches designed and manufactured for automotive work and other tough jobs. Precision knurl adjusts size opening fast; pushbutton locks jaws at desired opening. Moving jaw rides in unique D-slot for perfect alignment at all times, even under maximum working stress. True hex shape at any jaw position provides firm grip on work. Precision-made of drop-forged, heat treated alloy steel. Nickel-chrome plated with polished head. Meet Federal Specification G-W-631B-4, Type 1.



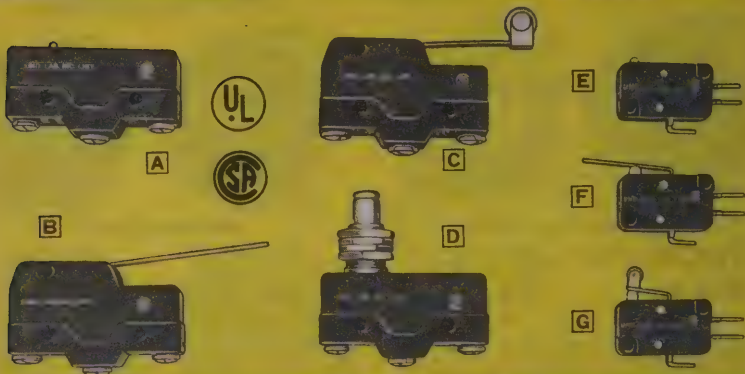
\$3.93
6", Lots 6

Size	Jaw Cap.	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
6"	3/4"	4X053	\$6.05	\$4.24	\$3.93	4 oz.
8"	1"	4X054	6.85	4.80	4.45	8 oz.
10"	1 1/8"	4X055	8.89	6.22	5.78	1 1/2
12"	1 1/2"	4X056	12.85	9.00	8.35	1 1/2

SEE WARRANTY INFORMATION ON PAGE 684

Unimax SNAP-ACTION SWITCHES

Single Pole, Double Throw Switch Action. UL and CSA Listed



ALL UNITS. Universally used to control electrical circuits in applications where precise accuracy is required—for example: alarm systems, door openers, packaging machinery, conveyor equipment, etc. Single pole, double throw (SPDT) switch action. Can be used for normally open or normally closed circuits. Available in four of the most widely used actuator styles. Switches may be assorted for lot prices. UL and CSA listed. Unimax brand.

BASIC PRECISION TYPE. For electrical control circuits where maximum mechanical sensitivity is required. Electrical rating: 20 amps at 125, 250 or 480 volts AC; 1/2 amp at 125 volts DC; and 1/4 amp at 250 volts DC. Screw terminals. Mounting dimensions 1" center to center. Wt. 2 oz.

HEAVY DUTY PRECISION TYPE (Motor Rated). For control of heavy-duty electrical circuits, including motor loads up to 2 HP and incandescent lamp loads up to 10 amps. Electrical rating: 1 HP at 125 volts AC; 2 HP at 250 volts AC; 20 amps at 125, 250 or 480 volts AC; and 10 amps at 125 volts AC lamp load. Screw terminals. Mounting dimensions 1" center to center. Shpg. wt. 4 oz.

MINIATURE TYPE. For applications requiring low operating force or a miniature size switch. Electrical rating: 10 amps at 250 volts AC; 1/3 HP at 125/250 volts AC; 1/2 amp at 125 volts DC; and 1/4 amp at 250 volts DC. .187" quick connect terminals. Mounting dimensions 7/8" center to center. Shpg. wt. 2 oz.

Fig.	Type of Actuator	Overall Dimensions			Interchange Guide		Stock No.	Retail	Each	Lots 5	Lots 25
		L	W	H	Micro	Unimax					

BASIC PRECISION TYPE

A Basic Pin	1.94"	.69"	.985"	BZ-2R-A2	2HB-5	6X283	\$2.45	\$2.21	\$2.08	\$1.96
B Rigid Lever	1.94	.69	.816	BZ-2RW80-A2	2HBT-5	6X284	3.10	2.79	2.64	2.48
C Rolling Contact	1.94	.69	.816	BZ-2RW82-A2	2HBA-5	6X285	3.85	3.47	3.27	3.08
D Large Plunger	1.94	.69	1.86	BZ-2RQ1-A2	2HBJ-5	6X286	5.25	4.73	4.46	4.20

HEAVY DUTY PRECISION TYPE (MOTOR RATED)

A Basic Pin	1.94	.69	1.00	BA-2R-A2	2HL-5	6X287	2.45	2.21	2.08	1.96
B Rigid Lever	1.94	.69	1.19	BA-2RV-A2	2HLT-5	6X289	3.20	2.88	2.72	2.56
C Rolling Contact	1.94	.69	1.19	BA-2RV2-A2	2HLA-5	6X290	4.00	3.60	3.40	3.20
D Large Plunger	1.94	.69	1.86	BA-2RQ1-A2	2HLJ-5	6X288	5.25	4.73	4.46	4.20

MINIATURE TYPE

E Basic Button	1.09	.40	.62	V3-101-D8	2TM-4	6X291	.90	.81	.77	.72
F Standard Lever	1.09	.40	.62	V3-1101-D8	—	6X292	1.05	.95	.89	.84
				V3L-104-D8	2TMT15-4					
				V3L-1108-D8	—					
G Short Roller	1.09	.40	.62	V3L-139-D8	2TMA-4	6X293	1.25	1.13	1.06	1.00

RAINFROOF DISCONNECT SWITCH

For Ventilators, Air Conditioners, Pumps, Etc.

Dayton non-fusible, pullout disconnect switch in NEMA 3R outdoor rainproof enclosure—a must where NEC code requires disconnect switch within sight of air conditioning equipment, pumps, and other installations. Rated 60 amps, 120/240VAC, single phase, 2 or 3 wire, for up to 10 HP motors. Enclosure can be padlocked. Overall dimensions: 10 1/2" H x 6 3/4" W x 4" D. Gray finish. UL listed. Dayton brand. Shpg. wt. 7 lbs.

No. 5X672. Dayton Disconnect Switch. Retail \$24.50. Each.....\$12.35



CARLINGSWITCH GENERAL-PURPOSE SWITCHES



Universally used with electric motors, appliances, power tools, light fixtures, instruments, etc. Compact, bakelite housings; quick-make, quick-break contact mechanism. $\frac{1}{32}$ " dia. stem

installs in up to $\frac{3}{8}$ " thick panel. Brass terminals and screws. No. 6-32 binding head. UL listed and CSA approved. Switches may be assorted for lot prices. Carlingswitch brand.

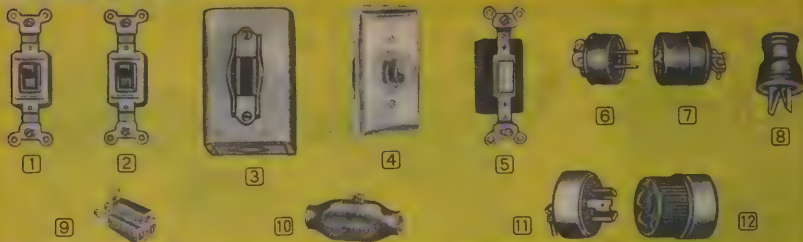
g.	Switch* Action	Circuit** Charac- teristics	HP Rating	—Amperes at— 125/250 VAC 125/250 VDC	Terminals	Mfrs. Model	Stock No.	Retail	Each	Lots 5	Lots 25	Shpg. Wt.
[A] through [E] TOGGLE SWITCHES (11/16" Long Bat Toggle, 15/32" Long Stem)												
	On-Off	SPST	$\frac{3}{4}$	15/10	—	Screw	2FA54-73	2X464	\$1.45	\$0.80	\$0.73	\$0.65 1 oz.
	On-Off	SPST	$\frac{3}{4}$	15/10	—	Tabst†	2FA53-73-Tabs	4X846	1.35	.74	.68	.61 1 oz.
	On-(M)Off	SPST	$\frac{3}{4}$	15/10	—	Screw	6FA58-73	4X201	1.95	1.07	.98	.88 1 oz.
	Off-(M)-On	SPST	$\frac{3}{4}$	15/10	—	Screw	6FA54-73	4X200	1.95	1.07	.98	.88 1 oz.
	On-On	SPDT	$\frac{3}{4}$	15/10	—	Screw	2FB54-73	2X465	1.90	1.05	.95	.86 1 oz.
	On-On	SPDT	$\frac{3}{4}$	15/10	—	Tabst†	2FB53-73-Tabs	4X847	1.45	.80	.73	.65 1 oz.
	On-Off-On	SPDT	$\frac{3}{4}$	15/10	—	Screw	2FC54-73	2X466	1.90	1.05	.95	.86 1 oz.
	On-Off-On	SPDT	$\frac{3}{4}$	15/10	—	Tabst†	2FC53-73-Tabs	4X848	1.45	.80	.73	.65 1 oz.
	On-(M)On	SPDT	$\frac{3}{4}$	15/10	—	Screw	6FB54-73	4X202	2.30	1.27	1.15	1.04 1 oz.
	(M)On-Off-(M)On	SPDT	$\frac{3}{4}$	15/10	—	Screw	6FC54-73	4X203	2.30	1.27	1.15	1.04 1 oz.
	On-Off	DPST	$\frac{3}{4}$	15/10	—	Screw	2GK54-73	2X467	2.50	1.38	1.25	1.13 1 oz.
	On-Off	DPST	$\frac{3}{4}$	15/10	—	Tabst†	2GK51-73	4X849	2.10	1.16	1.05	.95 1 oz.
	On-On	DPDT	$\frac{3}{4}$	15/10	—	Screw	2GL54-73	2X468	3.05	1.68	1.53	1.37 1 oz.
	On-On	DPDT	$\frac{3}{4}$	15/10	—	Tabst†	2GL51-73	4X850	2.50	1.38	1.25	1.13 1 oz.
	On-Off-On	DPDT	$\frac{3}{4}$	15/10	—	Screw	2GM54-73	2X469	3.05	1.68	1.53	1.37 1 oz.
	On-Off-On	DPDT	$\frac{3}{4}$	15/10	—	Tabst†	2GM51-73	4X851	2.50	1.38	1.25	1.13 1 oz.
	On-Off	TPST	$\frac{3}{4}$	15/10	—	Screw	HK254-73	4X208	4.60	2.53	2.30	2.07 2 oz.
	On-On	TPDT	$\frac{3}{4}$	15/10	—	Screw	HL254-73	2X650	5.80	3.19	2.90	2.61 2 oz.
	On-Off-On	TPDT	$\frac{3}{4}$	15/10	—	Screw	HM254-73	2X594	5.80	3.19	2.90	2.61 2 oz.
	On-Off	DPST	1	16/8	16/8	Screw	DK284-73	2X488	2.55	1.40	1.28	1.15 2 oz.
	On-Off	DPST	$1\frac{1}{2}$	20/10	20/10	Screw	EK204-73	2X633	4.40	2.42	2.20	1.98 2 oz.
	On-Off	SPST	—	6/3	6/3	Screw	110-S-73	1X687	1.45	.80	.73	.65 1 oz.
	On-Off	SPST	—	6/3	6/3	6" Leads	111-16-73	1X878	1.45	.80	.73	.65 1 oz.
[F] & [G] TIPPETTE® SWITCHES (5/8" Long, Black Actuator. 1 5/8" Mounting Centers)												
	On-Off	SPST	$\frac{3}{4}$	15/10	—	Screw	TILA54-1L-BL-A	4X209	\$1.60	\$0.88	\$0.80	\$0.72 1 oz.
	On-On	SPDT	$\frac{3}{4}$	15/10	—	Screw	TILB54-1L-BL-A	4X210	1.70	.94	.85	.77 1 oz.
	On-Off-On	SPDT	$\frac{3}{4}$	15/10	—	Screw	TILC54-1L-BL-A	4X211	1.70	.94	.85	.77 1 oz.
	On-Off, .002 Amp Red Neon Light	SPST	$\frac{3}{4}$	15/10	—	Screw	LTLA54-1L-BL-RC-A	4X216	3.10	1.71	1.55	1.40 2 oz.
[H] & [I] PUSH SWITCHES (9/16" L Stem)												
	On-Off	SPST	—	6/3	6/3	Screw	110-SP	1X692	\$2.35	\$1.29	\$1.18	\$1.06 1 oz.
	Normally Off	SPST	—	15/10	—	Screw	172	2X894	1.75	.96	.88	.79 1 oz.
	Normally On	SPST	—	15/10	—	Screw	170	2X901	1.75	.96	.88	.79 1 oz.
[J] & [K] 1, 2, 3 and 4-SPEED ROTARY SWITCHES (Black Knob, Round or Wing Type)												
	On-Off	SP	—	3/1	—	6" Leads	R-135	4X215	\$0.45	\$0.25	\$0.23	\$0.20 1 oz.
	Off-On-On	SP	—	4/†	1/†	Solder Lugs	700-4-BL-2	2X950	1.20	.66	.60	.54 1 oz.
	Off-On-On-On	SP	—	4/†	1/†	Solder Lugs	700-BL-2	4X087	1.25	.69	.63	.56 1 oz.
	Off-On-On-On-On	SP	—	6/3	—	Solder Lugs	800-5A	4X739	1.45	.80	.73	.65 1 oz.

No. 2X642. On-off switch plate for toggle and push switches above. $\frac{1}{16}$ " long. Nickel finish. Carlingswitch brand (Y01). Wt. 1 oz. Pkg. of 25. Retail \$1.50. Each 83¢; lots 5, 75¢; lots 25.....68¢

(M) Stands for momentarily. (†) Tabs are $\frac{1}{8}$ " disconnect. (†) Not rated for 250 VAC or VDC.
SPST—Single pole, single throw. SPDT—Single pole, double throw. DPST—Double pole, single throw. DPDT—Double pole, double throw. TPST—Three pole, single throw. TPDT—Three pole, double throw. SP—Single pole.

SEE WARRANTY INFORMATION ON PAGE 684

MOTOR-RATED & GENERAL PURPOSE WIRING DEVICES



MOTOR-RATED WIRING DEVICES

120/277 VAC HP-RATED SWITCHES

Heavy duty toggle switches for use at full rated capacity on lamp loads, and on motor loads up to 2 HP where overload protection is not required. Individually cartoned. UL listed. Pass & Seymour brand. Shpg. wt. 3 oz.

① TOGGLE SWITCH, Single & Double Pole

Max. Amps	Poles	HP Rating 120V 277V		Mfrs. Model	Stock No.	Each	Lots 10
15	1	3/4	2	AC1	5X542	\$1.34	\$1.17
20	1	1	2	521	6X041	1.56	1.42
20	2	1	2	AC202	5X543	3.25	2.84

② TOGGLE SWITCH, 3-Way Type

Max. Amps	Poles	HP Rating 120V 277V		Mfrs. Model	Stock No.	Each	Lots 10
15	—	1/2	2	503	6X042	\$1.48	\$1.34

③ NEMA 1 SWITCH ENCLOSURE

General-purpose metal enclosure for AC switches listed at left. Locking bracket allows switch to be secured in either position, also prevents accidental switching. Box is 3 3/8" H x 2 1/8" W x 2 1/2" D. 1/2" and 3/4" knockout in ends, 1/2" knockout in back. Gray finish. UL listed. Pass & Seymour brand (7806). Shpg. wt. 8 oz. No. 5X546. Retail \$3.60. Each \$2.64; lots 10, \$2.4

④ WEATHERPROOF SWITCH PLATE

For use with toggle switches that require protection from moisture, dirt, etc. Stainless steel plate with one-piece silicone mat resists grease, oil, live steam, detergents, sunlight and ozone. Switch toggle operates thru bubble. Silicone material meets Military Spec. MIL-R-5847L Class 350; rated from -100°F to +250°F. UL listed. Pass & Seymour brand (4515). Wt. 3 oz. No. 5X547. Retail \$5.69. Each \$4.18; lots 10, \$3.7

GENERAL PURPOSE WIRING DEVICES

⑤ TOUCH BUTTON SWITCH

Convenient touch button design replaces toggle switches for lights, appliances, etc. Silver switch contacts are rated 15A, 120/277 VAC. Fits standard outlet box. Ivory button. UL listed. Rodale brand (GR 422V). Shpg. wt. 3 oz. No. 2X692. Retail \$1.50. Each \$1.25; lots 10, \$1.10

RUBBER CAPS & CONNECTORS

Black rubber housings with heavy-duty cord clamps. 2-wire units have 5/16" hole, 3-wire have 7/16" hole, 1 ground wire. 115V, 15 amp. UL and CSA listed. Rodale brand. Wt. 2 oz.

⑥ CORD CAPS

Wires	Mfrs. Model	Stock No.	Retail	Each	Lots 10
2	GR524	2X991	\$0.64	\$0.52	\$0.46
3	GR579	2X993	.85	.69	.61

⑦ CORD CONNECTORS

	Mfrs. Model	Stock No.	Retail	Each	Lots 10	Lots 25
2	GR523	2X992	1.11	.92	.81	
3	GR799	2X871	1.77	1.46	1.29	

⑧ CORD CAPS

Black rubber housing with brass blades. 15 amp, 125VAC. UL listed. Spring Action brand. Wt. 2 oz.

Max. Cord	Hole Dia.	Mfrs. Model	Stock No.	Each	Lots 10	Lots 25
16/2-SJ	.406	102	2X150	\$0.36	—	\$0.30
14/2-SJ	.540	127A	2X799	.44	\$0.35	—

⑨ PARALLEL GROUND ADAPTER

Adapts 2-wire to 3-wire systems with parallel blade and U-shaped ground. Black vinyl. 15 amp, 125VAC. UL listed. Dayton brand. Wt. 2 oz. No. 2X604. Retail \$0.41. Each \$0.31; lots 10, \$0.2

⑩ FEED-THRU CORD SWITCHES

No. 2X547, 2X421 install on cords up to 18 gauge. No. 5X855 2-speed switch accepts ground cords up to 16 gauge with thru-the-switch ground. For SJ or SJT and smaller cords. Single pole. Bakelite housing. UL listed.

Type Action	Amps at 120V	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
On-Off	10	2X547	\$1.12	\$0.86	\$0.72	3 oz
High-Low-Off	10	5X855	1.95	1.30	1.20	6 oz

TURNLOK® CAPS & CONNECTORS

Armor covered, 3-wire cap and connectors with metal cord clamps. Corrosion resistant. 15 amp units for 125 volts; 20 amp for 120/250 volts. Pass & Seymour brand. Shpg. wt. 8 oz.

⑪ 3-WIRE MALE ARMORED CAPS

Amps	Cord Dia.	Mfrs. Model	Stock No.	Retail	While Stocks Last
15	.296-.625"	4726	5X550	\$2.67	\$1.25
20	.375-.750	7311	5X552	4.04	1.88

⑫ 3-WIRE FEMALE CONNECTOR

Amps	Cord Dia.	Mfrs. Model	Stock No.	Retail	While Stocks Last
15	.296-.625"	4730	5X549	\$4.22	\$1.97
20	.375-.750	7313	5X551	6.21	2.88

HEAVY DUTY NEMA CAPS, CONNECTORS, RECEPTACLES

Straight Blade & Turnlok Types. 15 Amp, 125VAC & 20 Amp, 125 or 250VAC. Meet OSHA Requirements

STRAIGHT-BLADE-DEVICES



No. 6X043
Cord Cap



No. 6X046
Cord Connector



No. 5X548
Receptacle



TURNLOK® DEVICES



No. 6X052
Cord Cap



No. 6X055
Cord Connector



No. 6X058
Receptacle

A	B	C
15A, 125V	20A, 125V	20A, 250V
NEMA 5-15P	NEMA 5-20P	NEMA 6-20P
CAP	CAP	CAP
NEMA 5-15R	NEMA 5-20R	NEMA 6-20R
CONNECTOR RECEPTACLE	CONNECTOR RECEPTACLE	CONNECTOR RECEPTACLE

D	E	F
15A, 125V	20A, 125V	20A, 250V
NEMA L5-15P	NEMA L5-20P	NEMA L6-20P
CAP	CAP	CAP
NEMA L5-15R	NEMA L5-20R	NEMA L6-20R
CONNECTOR RECEPTACLE	CONNECTOR RECEPTACLE	CONNECTOR RECEPTACLE

Heavy duty black phenolic receptacles for industrial applications. Caps and connectors are molded of yellow, high-impact Lexan®—an arc and moisture resistant material that withstands temperatures from minus 150°F to plus 250°F. Caps and connectors also feature: No metal amps or back plate to get hot from damaged insulation; and one-piece cord grip holds

cable far enough from terminals to eliminate flexing strain, adjusts for 18 to 12 gauge wire. Ample wiring room—each terminal and contact has its own recess, with no risk of flashover. Dead front construction—no metal screws on face to short wall plates or other wiring devices. Meet OSHA requirements. UL and CSA listed. Pass & Seymour brand.

HEAVY DUTY STRAIGHT-BLADE 3-WIRE NEMA DEVICES

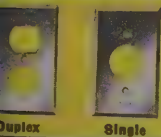
		CORD CAPS				CORD CONNECTORS				WALL RECEPTACLES				Approx. Shpg. Wt.	
Amps	Volts AC	Stock No.	Re-tail	Each	Lots 10	Stock No.	Re-tail	Each	Lots 10	Type	Stock No.	Re-tail	Each		Lots 10
15	125	6X043	\$3.12	\$2.30	\$2.09	6X046	\$5.57	\$4.10	\$3.73	Duplex	5X548	\$1.50	\$1.10	\$0.89	3 oz.
20	125	6X044	4.20	3.04	2.76	6X047	6.53	4.86	4.42	Single	6X049	1.43	1.06	.96	3 oz.
20	250	6X045	4.40	3.16	2.87	6X048	5.83	4.98	4.53	Single	6X050	2.03	1.50	1.36	3 oz.

HEAVY DUTY TURNLOK 3-WIRE NEMA DEVICES

15	125	6X051	\$3.22	\$2.40	\$2.18	6X054	\$4.22	\$4.28	\$3.89	Single	6X057	\$4.44	\$3.32	\$3.02	4 oz.
20	125	6X052	4.20	3.08	2.80	6X055	6.55	4.78	4.35	Single	6X058	5.53	4.02	3.65	8 oz.
20	250	6X053	4.09	3.08	2.80	6X056	6.69	4.78	4.35	Single	6X059	6.71	4.02	3.65	13 oz.

STAINLESS STEEL WALL PLATES

For Straight Blade and Turnlok Receptacles. Pass & Seymour Brand



Duplex

Single

Type	Use With	Mfrs. Model	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
Duplex	5X548, 6X064, 6X279	93101	6X060	\$1.42	\$0.96	\$0.87	2 oz.
Single	6X049, 6X050, 6X057	93091	6X061	1.42	.96	.87	4 oz.
Single	6X058, 6X059	93111	6X062	1.72	1.28	1.16	11 oz.

RECEPTACLES and SWITCHES

Economically priced and designed for light duty applications such as lights, appliances, etc. Brown or ivory phenolic receptacles with back and side wire feature. Compact, single pole (SP) switches are ideal for shallow partitions. 15 amp, 120 volt, not HP rated. UL listed. Pass & Seymour brand.



Device	Body Color	Mfrs. Model	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
Receptacle	Brown	5240	6X064	\$0.84	\$0.66	\$0.60	2 oz.
Receptacle	Ivory	5240I	6X279	.87	.68	.62	2 oz.
SP Switch	Brown	1451	6X063	.92	.72	.65	2 oz.
SP Switch	Ivory	1451I	6X280	.94	.72	.65	2 oz.

SEE WARRANTY INFORMATION ON PAGE 684

PORTABLE GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

Senses Current Leak to Ground & Opens Circuit. Meets NEC & OSHA Requirements



All Models
\$67.88
Lots 3

CAP & RECEPTACLE CONFIGURATIONS:

- For use wherever permanent ground fault protection is unavailable, especially in damp locations.
- Protects against electrical shock hazards
- Multiple receptacle types available
- Break-resistant Lexan® case, 6-ft. cord set

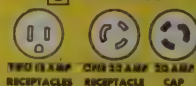
A No. 6X150



B No. 6X151



C No. 6X152



Rugged, portable GFCI gives on-the-job protection from electric shock hazards caused by ground faults in commercial, industrial and residential applications. For construction, electrical and plumbing contractors, maintenance men, farmers, homeowners, etc. Protects against shock hazards from most generators, portable tools, motors, pumps, fans, compressors, appliances, etc. Designed to trip at 5 milliamperes in 1/30th of a second—well below the danger point. Unit cannot be energized if plugged into circuit with broken or disconnected neutral conductor. Easy to use: simply plug portable GFCI into any

suitably grounded receptacle and plug tools into GFCI for automatic protection against ground faults.

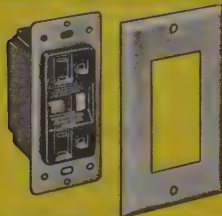
Meets all requirements of the National Electrical Code (NEC) and Occupational Safety and Health Act for construction sites (210-22D) recommended for marinas (555-3). Molded, high-impact, yellow Lexan® with 6-ft., heavy-duty service cord secured with strain relief fitting and yellow Lexan® plug. Self-closing spring-loaded aluminum covers protect unused receptacles. 115V, 60 Hz, UL listed. 20 amp maximum. Pass & Seymour brand. Shpg. wt. 4 lbs.

Fig.	RECEPTACLE DATA			CAP DATA			Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	No.	Amps	Type	Amps	Type							
A	4	15	Straight Blade	15	Straight Blade		PS150-S	6X150	\$106.00	\$72.73	\$67.88	5
	2	15	Straight Blade	20	Straight Blade		PS200-S	6X151	106.00	72.73	67.88	5
B	2	20	Straight Blade									
	2	20	Straight Blade									
C	2	15	Straight Blade	20	Turnlok		PL200-L	6X152	106.00	72.73	67.88	5
	1	20	Turnlok									

GROUND FAULT INTERRUPTER (GFI) RECEPTACLES

Sense Current Leak to Ground & Open Circuit. Non-Feed-Thru & Feed-Thru Types
UL Listed for Circuits up to 20 Amps. Meet NEC and OSHA Requirements

Provides protection from electric shock hazards caused by ground faults in commercial, industrial and residential applications. Use with most plug-in tools, motors, pumps, swimming pool filters, fans, compressors, appliances. Compact, easy-to-install duplex receptacle for 115V circuits up to 20 amps. Designed to trip at 5 milliamperes in 1/30th of a second—well below the danger point.



Feed-Thru Models
\$27.36
Lots 3



Meets all requirements of the National Electrical Code (NEC) and Occupational Safety and Health Act (OSHA) for construction sites (210-7) outdoor residential receptacles (210-22D), receptacles within 15 ft. of swimming pools (680-6) and storable swimming pools (630-31). Also recommended for marinas (555-3). Code reference from NEC. Stainless steel cover plate, wire connectors, mounting hardware included. For 115V, 60 Hz. 20 amp maximum. UL listed. Pass & Seymour brand. Shpg. wt. 10 oz.

Note: GFI installs in new and existing hand-1900 boxes, replaces standard duplex outlet.

Non-Feed-Thru (1591). Provides ground fault protection to any device plugged into it. Black.

Feed-Thru (1591-F). Protects all other receptacle on same branch circuit on load side as well as devices plugged into it. Black or ivory.

Model	Color	Stock No.	Retail	Each	Lots
Feed-Thru	Black	5X912	\$48.00	\$29.31	\$27.3
Feed-Thru	Ivory	6X278	48.00	29.31	27.3
Non-Feed-Thru	Black	5X913	48.00	25.65*	—

(*) While stocks last.



\$4.00
Lots 3

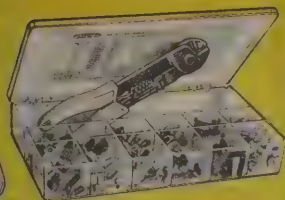
INTERRUPTER RAINPROOF COVER

For outdoor installation of 5X912 & 5X913 units. Aluminum spring return cover fits standard outlet box. Meets all NEC requirement for outdoor receptacles. Pass & Seymour brand (1591-WP). Wt. 8 oz. No. 5X914. Interrupter Cover. Retail \$6.00. Each \$4.29; lots 3.....\$4.00

SOLDERLESS TERMINAL KITS & CRIMPING TOOL



No. 4X316



Nos. 4X257 & 4X258

TERMINAL CRIMPING TOOL

Universal type, crimps insulated and non-insulated terminals and connectors and cuts and strips wire to 10 ga. Shpg. wt. 8 oz.

No. 4X316. Retail \$5.80. Each \$4.06; lots 3, \$3.77

Dayton

No. 4X257

\$13.54

Lots 3

Widely used by servicemen in electrical, automotive and appliance work. Kits contain crimping tool and solderless terminals and connectors in 5 popular types. Kits are in plastic box with 13 clearly labeled compartments. 11 W x 6% D x 1 1/8" H. Crimping tool is a must for every tool kit. Crimps terminals and wire connectors, insulated and non-insulated types. Also strips and cuts 22 to 10 gauge wire. Precision, hardened steel construction for long, dependable service. Clearly indexed for all functions. Plastic, insulated handles. 8 1/4" long. Extra terminals and connectors listed on next page.

KIT OF 214 NON-INSULATED TERMINALS

With No. 4X316 crimping tool. Shpg. wt. 1 1/4 lbs.

No. 4X257. Retail \$20.83. Ea. \$14.58; lots 3, \$13.54

KIT OF 134 INSULATED TERMINALS

With No. 4X316 crimping tool. Shpg. wt. 1 lb.

No. 4X258. Retail \$21.94. Ea. \$15.36; lots 3, \$14.26

3/4" VINYL ELECTRIC TAPE

6-Ft. in Tape-N-Tear Dispenser. Bulldog Brand



No. 4X017 Comes in Tape-N-Tear dispenser with built-in cutter that permits tape splices in one simple, fast operation. Vinyl tape does the work of both friction and rubber tapes. Dielectric strength approx. 10,000 volts. Fine elongation up to 200%. Good tackiness

and adhesion. Excellent resistance to oils, acids, weather, etc. Tensile strength 20 lb. per in. of width. No. 4X627, All-Weather type, is recommended for use where extreme weather conditions prevail. Remains flexible and easy to use—holds permanently in hot or cold temperatures ranging from +175°F to -15°F. Bulldog brand, product of Boston Woven Hose Co. Shpg. wt. 12 oz.

3/4" x 66 Ft. Rolls Vinyl Plastic Tape

Type	Thickness	Stock No.*	Retail	Each	Lots 12
Standard	.007"	4X017	\$1.75	\$1.14	\$1.05
All-Weather	.0085	4X627	2.06	1.34	1.24

Manufacturer's models 366C & 466KD respectively.

VINYL ELECTRIC TAPE PACKS

Shop-Pack Cans of 5 and 12 Rolls



5-Roll Can Popular Shop-Pack cans of 5 or 12 rolls of Bulldog vinyl

\$3.04
Lots 10 electrical tape. 3/4" wide by .007 thickness. Dielectric strength about 10,000 volts. Fine elongation up to 200%. Good tackiness and adhesion. Excellent resistance to oils, acids, weather, etc. Tensile strength 20 lb. per inch of width. Screw-top canisters, each roll cellophane wrapped. Bulldog brand, product of Boston Woven Hose Company.

Roll Size	Stock No.	Retail	Per Can	10 Cans Ass'd	Shpg. Wt.
3/4" x 40 ft.	4X018*	\$5.07	\$3.30	\$3.04	11 oz.
3/4" x 20 ft.	4X019	6.29	4.09	3.77	1 1/4

Manufacturer's model 330S.

3/4" FRICTION TAPE PACK

Canister of Ten 60-Ft. Rolls



\$6.55 For all general purpose and splicing jobs, 3/4" fabric of high physical strength and good resistance to tearing. Non-raveling, straight tearing. Dielectric strength, 1000 volts minimum. In canister of ten 3/4" x 60 ft. rolls, each cellophane wrapped. Bulldog brand, product of Boston Woven Hose Co. Shpg. wt. 3 lbs.

No. 4X020. Ten-Roll Canister. Retail \$10.90. Each \$7.10; lots 10, \$6.55

TAPMASTER CUBE TAP



One-piece, all rubber construction. Tamperproof—three outlets with riveted, non-arcng contacts. Brown color. UL listed. 15A, 125V. Spring Action brand (135A). Shpg. wt. 2 oz.

No. 2X487. Retail 98c. Each 49c; lots 10.....40c



CORD CONNECTOR

Accepts 2-prong plugs. Black rubber. 15A, 125V. Rodale brand (GR62). 2 oz.

No. 2X872. Retail 58c. Each 48c; lots 10.....42c

9 FT. CUBE-TAP EXTENSION



Brown 18/2, SPT-1 cord has 3-outlet cube tap, plug. Safety caps cover unused outlets. UL listed. Meets OSHA standards. Carol brand (00209). Shpg. wt. 4 oz.

No. 1W582. Retail \$1.29. Each \$1.03; lots 10.....88c

8-FT. TEST CORD & CLIPS



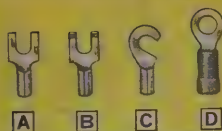
\$1.95

Lots 10

For testing motors, appliances, etc. 8 ft. 16/2 SJ cord and plug with two coded rubber sleeved Mueller No. 27 alligator clips. Black cord. UL & CSA listed. Dayton brand. 9 oz.

No. 1W524. Retail \$3.53. Each \$2.35; lots 10..\$1.95

SOLDERLESS TERMINALS AND WIRE CONNECTORS



Dayton

Quantity Prices
Available
On Request



NEW

Provides an exceptionally reliable connection for No. 22 to 4 wire, quickly and easily. Made of highest quality copper, electro-tin plated. Makes perfect connection by merely inserting wire into the terminal barrel and crimping with

No. 4X316 crimping tool listed on previous page or screw on (No. 6X578). Packaged and sold in cartons of 50 or 100. Recognized under UL Component Program unless noted otherwise. Shpg. wt. per carton: 2-4 oz. except (*) items are 1 lb.

A SPADE TONGUE TERMINALS

DIMENSIONS				NON-INSULATED TYPE				INSULATED TYPE			
Wire Range	Stud Size	Width	Stud Clearance	Length	Stock No.	Each	Packages of 100 Lots 6 Lots 12	Length	Stock No.	Each	Packages of 100 Lots 6 Lots 12
22-18	4-6	$\frac{19}{64}$ "	$\frac{1}{4}$ "	$\frac{21}{32}$ "	4X260	\$2.12	\$1.86	$\frac{27}{32}$ "	4X296	\$4.88	— \$4.27
22-18	8-10	$\frac{19}{64}$ "	$\frac{3}{4}$ "	$\frac{21}{32}$ "	4X262	2.12	1.86	—	—	—	—
16-14	4-6	$\frac{19}{64}$ "	$\frac{1}{4}$ "	$\frac{21}{32}$ "	4X264	2.12	1.86	$\frac{27}{32}$ "	4X298	4.88	— 4.27
16-14	8-10	$\frac{21}{64}$ "	$\frac{1}{4}$ "	$\frac{11}{16}$ "	4X265	2.12	1.86	$\frac{7}{8}$ "	4X299	4.88	4.27
12-10	8-10	$\frac{3}{8}$ "	$\frac{5}{32}$ "	$\frac{3}{4}$ "	4X266	2.92	2.56	$1\frac{1}{4}$ "	5X528	5.88	5.16

B FLANGED SPADE TERMINALS

22-18	4-6	$\frac{19}{64}$ "	$\frac{1}{4}$ "	$\frac{21}{32}$ "	4X267	2.12	—	1.86	$\frac{27}{32}$ "	5X529	4.88	—	4.27
16-14	4-6	$\frac{19}{64}$ "	$\frac{1}{4}$ "	$\frac{21}{32}$ "	4X268	2.12	1.86	—	$\frac{27}{32}$ "	5X530	4.88	4.27	—
16-14	8-10	$\frac{19}{64}$ "	$\frac{1}{4}$ "	$\frac{21}{32}$ "	5X531	2.12	—	1.86	—	—	—	—	—
12-10	8-10	$\frac{5}{16}$ "	$\frac{5}{32}$ "	$\frac{47}{64}$ "	5X532	2.92	—	2.56	—	—	—	—	—

C HOOK TONGUE TERMINALS

22-18	4-6	$\frac{21}{64}$ "	$\frac{1}{4}$ "	$\frac{11}{16}$ "	4X270	2.12	—	1.86	—	—	—	—	—
16-14	4-6	$\frac{21}{64}$ "	$\frac{1}{4}$ "	$\frac{11}{16}$ "	4X271	2.12	1.86	—	—	—	—	—	—

D RING TONGUE TERMINALS

22-18	4-6	$\frac{1}{4}$ "	$\frac{7}{32}$ "	$\frac{19}{32}$ "	4X274	2.12	—	1.86	—	$\frac{7}{8}$ "	4X304	4.88	—	4.27
22-18	8-10	$\frac{21}{64}$ "	$\frac{1}{4}$ "	$\frac{19}{32}$ "	4X276	2.12	1.86	—	—	$\frac{25}{32}$ "	4X306	4.88	—	4.27
16-14	4-6	$\frac{1}{4}$ "	$\frac{7}{32}$ "	$\frac{19}{32}$ "	4X280	2.12	—	1.86	—	$\frac{7}{8}$ "	4X308	4.88	4.27	—
16-14	8-10	$\frac{21}{64}$ "	$\frac{1}{4}$ "	$\frac{11}{16}$ "	4X283	2.12	1.86	—	—	$\frac{11}{16}$ "	4X310	5.88	5.15	—
12-10	8-10	$\frac{3}{8}$ "	$\frac{7}{32}$ "	$\frac{3}{4}$ "	4X286	2.92	2.56	—	—	—	—	—	—	—
10-8	$\frac{1}{4}$ "	$\frac{16}{64}$ "	$\frac{13}{32}$ "	$\frac{61}{64}$ "	5X533*	5.72	5.01	—	—	—	—	—	—	—
8-6	$\frac{1}{4}$ "	$\frac{16}{64}$ "	$\frac{13}{32}$ "	$\frac{17}{32}$ "	5X534*	8.76	7.67	—	—	—	—	—	—	—
6-4	$\frac{3}{8}$ "	$\frac{45}{64}$ "	$\frac{17}{32}$ "	$\frac{11}{32}$ "	5X535*	12.36	10.82	—	—	—	—	—	—	—

E BUTT CONNECTORS

22-18	—	—	—	$\frac{9}{16}$ "	4X289	2.20	—	1.93	$\frac{15}{16}$ "	4X312	5.16	4.52	—
16-14	—	—	—	$\frac{9}{16}$ "	4X290	2.20	—	1.93	$\frac{15}{16}$ "	4X313	5.20	4.55	—
12-10	—	—	—	$\frac{9}{16}$ "	4X291	3.44	3.01	—	$1\frac{1}{8}$ "	5X541*	3.28	2.87	—
8-6	—	—	—	$\frac{11}{16}$ "	5X536*	13.24	11.59	—	—	—	—	—	—
6-4	—	—	—	$1\frac{1}{8}$ "	5X537*	13.88	12.16	—	—	—	—	—	—

F G H I QUICK DISCONNECTS—PUSH-ON TYPE

18-14	$\frac{1}{4}$ "	Male (F)	$\frac{21}{32}$ "	4X292	2.40	2.10	—	—	—	—	—	—	—
16-14	$\frac{1}{4}$ "	Female (G)	$\frac{45}{64}$ "	4X293	2.40	2.10	—	—	$\frac{55}{64}$ "	4X315	5.12	4.48	—
16-14	$\frac{3}{16}$ "	Female (G)	$\frac{31}{64}$ "	4X869	2.40	—	2.10	—	—	—	—	—	—
18-14	$\frac{1}{4}$ "	Female (H)	$\frac{19}{32}$ "	4X423†	2.80	2.45	—	—	—	—	—	—	—
22-18	$\frac{1}{4}$ "	Female (H)	$\frac{25}{64}$ "	5X538†	2.84	2.49	—	—	—	—	—	—	—
22-18	$\frac{3}{16}$ "	Female (H)	$\frac{35}{64}$ "	5X539†	2.84	—	2.49	—	—	—	—	—	—
18-14	$\frac{3}{16}$ "	Female (H)	$\frac{17}{32}$ "	5X540†	2.84	—	2.49	—	—	—	—	—	—
#6-32	$\frac{1}{4}$ "	Female (I)	$\frac{25}{64}$ "	6X578†	5.83	5.10	—	—	—	—	—	—	—

Screw

J NYLON-INSULATED, CLOSED-END CONNECTORS

Wire Range	OD	Barrel Lgth.	ID	Lgth.	Stock No.	Each	Package 50 Lots 6	Package 100 Lots 6	Maximum Circular Mil Area			
22-14	$\frac{13}{32}$ "	$\frac{11}{32}$ "	$\frac{1}{4}$ "	$\frac{45}{64}$ "	4X294	—	—	\$3.84	\$3.36	600-5,180. 2 ea. No. 20 & No. 18 wire		
16-10	$\frac{15}{32}$ "	$\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "	4X839	\$2.48	\$2.17	—	—	2,400-13,000. 3 No. 16 & 1 No. 14 wire		

(†) Not recognized under Component Program of UL.

(*) Priced and sold 50 to a carton instead of 100. Shpg. wt. 1 lb. per carton.

SERVICE CORDS ON SPOOLS

2 & 3 Conductor; SPT, SJ & S Types
18 to 12 Gauge. UL Listed



1W566
\$6.93
Lots 4

Handy spools of high quality, commercial-grade power supply cord. 2 and 3-cond. stranded wire. UL listed. Rated 300 volts, except No. 1W317, 1W663 and 2W164 are 600V. Diamond Wire brand.

2-COND. CORDS ON SPOOLS

Ga./Cond.	Type	Color	Ft. On Spool	Stock No.	—Per Spool— Each	Spools— Lots 4	Wt.
18/2	SPT-1	Brown	250	1W566	\$7.85	\$6.93	5 1/2
18/2	SJ	Black	250	1W311	17.75	15.81	13
16/2	SJ	Black	250	1W312	21.42	18.90	16
14/2	SJ	Black	250	1W925	28.22	24.90	22
14/2	S	Black	250	1W317	34.19	—	38

(*) While stocks last.

3-COND. CORDS ON SPOOLS

16/3	SJ	Black	250	1W661	28.45	25.10	23
14/3	S	Black	100	1W663	22.42	19.78	19
14/3	SJ	Black	250	1W926	34.56	30.82	26
12/3	S	Black	100	2W164	31.03	27.38	24

THERMOSTAT CABLE

18 Gauge Color-Coded Wire in Thermoplastic Insulated Jacket. 2, 3, 4, 5, 6 & 8 Conductor



Thermoplastic insulated cable for use with thermostat controls for heating and air conditioning. Can also be used on other low-voltage systems such as door bells, fire detection circuits, burglar alarm systems, etc. All conductors color-coded. 18-ga. with thermoplastic jacket. Sold only in full spools. Diamond Wire brand.

Ga./Cond.	Spool Length	Stock No.	—Per Spool— Each	Spools— Lots 4	Shpg. Wt.
18/2	500 ft.	1W511	\$14.42	\$12.72	8
18/3	500	1W742	20.43	18.03	12
18/4	250	2W203	12.50	11.03	8
18/5	250	1W906	16.30	14.38	10
18/6	250	2W204	19.25	16.99	12
18/8	250	2W205	25.27	22.30	15

HEAVY DUTY LIGHT REELS

2 & 3 Conductor, 20 & 25 Ft. Lengths. UL Listed



20 Ft., 18/2
\$9.44

Portable cord reel pulls out and locks at desired length; retracts automatically. Steel bulb guard, reflector; push-thru switch. 2-ft. installation cord. Steel casing swivel mounts on wall or ceiling. No. 1W942 has SVT black cord, 6 1/2" diameter steel housing. No. 1W943 has SJT black cord, 1 outlet, 1/2" D housing. Dayton brand.

Length	Ga./ Cond.	Max. Amps	Stock No.	—Less Bulb— Retail Each		Shpg. Wt.
20 ft.	18/2	7	1W942	\$14.53	\$9.44	4
25	16/3	9	1W943	31.15	20.25	10

NON-METALLIC CABLE



Flexible, moisture resisting and flame retarding white jacket. Thermoplastic insulated. Requires no conduit. 2-cond. with ground wire. UL listed. 250-ft. boxed coils. Columbia Cable brand.

Ga./Cond.	Stock No.	Retail	Per 250 Ft. Each	Lots 4	Shpg. Wt.
14/2	1W673	\$27.83	\$18.55	\$17.51	18
12/2	1W674	40.68	27.12	25.59	25

UNDERGROUND CABLE



2 conductor with thermoplastic coating and jacket. For direct burial. May be imbedded in plaster. Has ground wire. Black jacket. UL listed. 250-ft. boxed coils. Columbia Cable brand.

Ga./Cond.	Stock No.	Retail	Per 250 Ft. Each	Lots 4	Shpg. Wt.
14/2	1W675	\$35.42	\$23.61	\$22.28	21
12/2	1W676	64.00	36.00	33.97	27

HEAVY DUTY TROUBLE LAMPS

25 & 50-Ft. 18 & 16 Ga. Yellow Jacket. UL Listed
Meet OSHA Requirements. Carol Cable Brand



No. 1W953
\$8.19
25 ft. 18/3
Lots 4



B

No. 2W163
\$6.64
25 ft. 18/3
Lots 4

A Heavy Duty, General Purpose. Has push-thru switch, side outlet with U-ground. 25 ft. 18/3 or 50 ft. 16/3 SJO neoprene cord remains flexible even in extreme temperatures. Polypropylene bulb guard. Meets OSHA requirements for general indoor/outdoor use. Not for hazardous or explosive locations. Up to 75W bulb.

B Heavy Duty, Above Hazardous Locations**. No switch, side outlet or uncoated metal parts to create spark hazards. 25 ft. SJO neoprene cord stays flexible in extreme temperatures. Vinyl-coated, fully insulated guard. Meets OSHA requirements for applications above hazardous locations—for example, where danger caused by sparking exists—service stations, etc. Not for use in explosive locations. Accommodates up to 75W bulb.

Ga./Fig.	Cond.	Length	Max. Amps.†	Stock No.*	—Less Bulb— Retail Each	Shpg. Wt.
A	18/3	25 ft.	10	1W953	\$10.85 \$8.68	\$8.19 2 1/2
A	16/3	50	13	2W048	19.10 15.28	13.81 4 3/4
B	18/3	25	6	2W163	9.13 7.30	6.64 2 1/4

(*) Manufacturer's models 4488, 4499 and 4445 respectively.

(**) 18" or more above the floor.

(†) Maximum amps represents total of bulb and other devices plugged into it.

Industry OEM Motor Prices

will be quoted on most Dayton and Westinghouse motors listed in this MotorBook. Many of your standard motor needs can be shipped from Grainger's large stock as required.

AIR CONDITIONER EXT. CORD

Meets OSHA Requirements For Indoor Use



\$2.32
6 Ft. 14/3
Lots 4



Flat beige jacket, parallel SPT-3 construction. Molded vinyl cap and connector. Blade configurations meet NEMA specifications. 15 amp, 125V cords are 14/3 SPT-3 with 3-wire, right angle male cap, round grounding pin, parallel blades and 3-wire female with U-ground connector. 20 amp, 250V cords are 12/3 SPT-3 with 3-wire right angle male cap, round grounding pin, perpendicular blades, 3-wire female, U-ground. UL listed. Meet OSHA requirements. Carol Brand.

Max. Amps	Length	Ga./Cond.	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
15	6 ft.	14/3	436	2W165	\$3.19	\$2.55	\$2.32	11 oz.
15	9	14/3	439	2W166	3.91	3.13	2.83	13 oz.
15	12	14/3	442	2W167	4.71	3.77	3.42	1 1/4
20	9	12/3	762	2W168	6.61	5.29	4.79	1 1/4
20	12	12/3	763	2W169	8.30	6.64	5.98	1 1/4

POWER-CENTER EXT. CORDS

Meet OSHA Requirements. Three-Outlets



Safety Orange Jacket
25 & 50-Ft. 16 & 14 Ga.

\$5.14
25 Ft. 16/3
Lots 4



Heavy duty 3-cond. flat orange extension cords with three 3-wire outlets. Ideal for homeowners, contractors, industry. Use for power tools, compressors, motors, pumps, etc. Vinyl jacket resists oil, grease, acids, moisture and abrasion. UL listed, meet OSHA requirements for indoor use. Orange color, Carol brand. Shpg. wt. 1 3/4 and 4 1/2 lbs.

Length	Ga./Cond.	Max. Amps	Type Jacket	Stock Model No.	Retail	Each	Lots 4
25 ft.	16/3	13†	SPT-2	561	1W954	\$7.04	\$5.63
50	14/3	15†	SPT-3	652	2W047	16.15	12.92

(†) Maximum amps shown for total of three outlets.

WORKBENCH POWER-CENTER

3-Ft., 3-Outlet, 14/3, SPT-3 Extension Cord
Meets OSHA Requirements, UL Listed



\$3.37
Lots 4

Versatile 3-ft. heavy duty extension cord has three 3-wire connectors, similar to Powr-Center cords above. Provides added convenience at job sites, work benches, etc. Also can be attached to any 14/3 or heavier extension cord. Allows

up to three devices to be plugged into one cord. Tough vinyl jacket is moisture, oil, grease and abrasion resistant. Safety orange color. Maximum of 15 amps for total of three outlets. UL listed, meets OSHA requirements for indoor service. Carol brand (655). Shpg. wt. 8 oz.

No. 2W170. Retail \$4.31. Each \$3.45; lots 4, \$3.37.

FLAT INDUSTRIAL EXT. CORDS

Meet OSHA Indoor Requirements



\$3.70
Lots 4

25 Ft. 16/3 3-wire flat extension cord sets with safety orange SPT-2 jacket on 16 ga., SPT-3 jacket on others. Vinyl construction resists moisture, oil, grease, acids and abrasion. Designed for rough service in homes, industry, construction, etc. All cords UL listed, meet OSHA requirements for indoor service. Molded-on caps and connectors. Carol brand.

Ga./Cond.	Length	Max. Amps	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
16/3	25 ft.	13	3727	2W040	\$5.03	\$4.02	\$3.70	1 1/2
16/3	50	13	3752	2W041	8.13	6.50	5.98	3
16/3	100	10	3703	2W042	13.78	11.02	10.17	6
14/3	50	15	3851	2W043	19.49	15.59	14.28	4
14/3	100	13	3801	2W044	33.98	27.18	25.63	8
12/3	50	15	3951	2W045	20.41	16.33	15.02	6
12/3	100	15	3901	2W046	42.20	33.78	30.17	11

FLAT YELLOW EXT. CORDS

For Indoor and Outdoor Use



\$1.78
Lots 4

25 Ft. 16/2 2 and 3 wire flat extension cords for most indoor and outdoor applications. Easy-to-see yellow jackets for added safety. Flexible vinyl construction. For lawn and garden tools, portable and power tools, contractor and farm equipment. Molded on plug and connector. Packaged in sleeves or cartons. Carol brand.

Ga./Cond.	Length	Max. Amps	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
16/2	25 ft.	10	3425	2W036	\$2.40	\$1.92	\$1.78	1
16/2	50	10	3450	2W037	3.94	3.15	2.90	2
14/2	50	13	3550	2W038	6.84	5.47	4.98	5
14/2	100	10	3500	2W039	12.80	10.24	9.30	9
16/3	25	10	3725	1W684	3.60	3.04	2.77	1 1/4
16/3	50	10	3750	1W685	6.06	4.85	4.45	2 3/4
16/3	100	7	3700	1W684	11.23	8.98	8.18	4 3/4
14/3	50	13	3850	1W688	8.25	6.60	6.03	4
14/3	100	10	3800	1W687	14.90	11.92	10.88	8

8 FT. 16/3 PLASTIC CORD



\$1.55
Lots 10

Heavy-duty, SJT thermoplastic-jacketed orange extension cord, molded 3-conductor female connector and plug. Use on power tools, garden tools, etc., where short extension cord is required. Resists corrosion from sun, moisture, oil, acids, etc. UL listed. Dayton brand. 11 oz. No. 1W526. Retail \$2.81. Each \$1.87; lots 10, \$1.55.

6-FT. APPLIANCE CORD SET



\$1.20
Lots 10

For electric irons and heat appliances. 6-ft. 18/2 3000 cycle HPD, black cotton-asbestos insulated wire with eyelet ends. 10 amps. Molded plug. UL & CSA listed. Dayton brand. Wt. 3 oz. No. 1W551. Retail \$2.16. Each \$1.44; lots 10, \$1.20.

RUBBER GROMMETS FOR CORD



Bore	Hole Req'd	Stock No.	Bag of 25	Lots of 8 Bags	Wt.
3/8"	1/2"	4X561	\$1.05	\$0.90	1 lb.
1/2"	5/8"	4X562	1.25	1.10	1 lb.

POWER SUPPLY & EXTENSION CORDS


8 and 12 Ft. POWER SUPPLY CORDS


High quality power supply cords have precision extruded insulating outer jackets of rubber, plastic or combination compounds. Stranded, electrical





grade copper conductors. All cords have molded-on male plug cap and spring-tight blades. Conductor ends stripped and tinned unless otherwise specified.

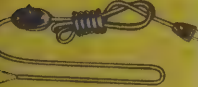


	Gauge & Cond.	Length	Type	Ends	Max. Amps 115V	Color	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
2 & 3-WIRE, SPT, LIGHT-DUTY 8 & 12-FT. CORDS											
	18/2	8 ft.	SPT-1	Bare	7	Gray	1W516	\$0.84	\$0.56	\$0.46	3 oz.
	18/3(4)	8 ft.	SPT-1	Bare	7	Gray	2W050	1.25	.83	.69	3 oz.
	18/2	8 ft.	SPT-2	Eyelets(*)	7	Black	1W536	.92	.61	.51	5 oz.
	18/3(4)	8 ft.	SPT-2	Eyelets(*)	7	Black	2W051	1.41	.94	.78	3 oz.
	18/2	12 ft.	SPT-2	Bare	7	Black	1W522	1.20	.80	.66	6 oz.

2-WIRE, SJ, MEDIUM-DUTY 8 & 12-FT. CORDS											
	18/2	8 ft.	SJ	Bare	7	Black	1W180	1.47	.98	.82	6 oz.
	18/2	12 ft.	SJ	Bare	7	Black	1W181	2.09	1.39	1.15	9 oz.
	16/2	8 ft.	SJ	Bare	10	Black	1W278	1.76	1.17	.97	8 oz.
	14/2	8 ft.	SJ	Bare	15	Black	1W309	2.97	1.93	1.65	11 oz.

3-WIRE, SJ & S, MEDIUM & HEAVY-DUTY 8 & 12-FT. CORDS											
	18/3(4)	8 ft.	SJ	Bare	7	Black	1W364	1.97	1.31	1.09	8 oz.
	18/3(4)	12 ft.	SJ	Bare	7	Black	2W052	2.64	1.76	1.46	13 oz.
	16/3(4)	8 ft.	SJ	Bare	10	Black	1W513	2.36	1.57	1.31	9 oz.
	16/3(4)	12 ft.	SJ	Bare	10	Black	1W514	3.30	2.20	1.83	14 oz.
	14/3(4)	8 ft.	SJ	Bare	15	Black	1W950	3.54	2.56	2.12	13 oz.
	12/3(4)	8 ft.	S	Bare	15	Black	1W951	6.86	4.57	3.80	2 oz.

2 & 3-WIRE, SJ CORDS WITH 1-SPEED FEED-THRU SWITCH											
	18/2	8 ft.	SJ	Bare	7	Black	1W280	4.37	2.91	2.42	8 oz.
	18/2	12 ft.	SJ	Bare	7	Black	1W156	4.92	3.28	2.72	11 oz.
	16/3(4)	8 ft.	SJ	Bare	7	Black	1W732†	4.97	3.31	2.75	11 oz.
	18/3(4)	12 ft.	SJ	Bare	7	Black	2W053†	5.48	3.65	3.03	14 oz.

2 & 3-WIRE, SJ CORDS WITH 2-SPEED FEED-THRU SWITCH											
	18/2	12 ft.	SJ	Bare	6	Black	1W315	5.95	3.23	2.71	11 oz.
	16/3(4)	8 ft.	SJ	Bare	10	Black	2W084†	7.11	4.74	3.94	8 oz.
	16/3(4)	12 ft.	SJ	Bare	10	Black	2W085†	8.06	5.37	4.46	11 oz.

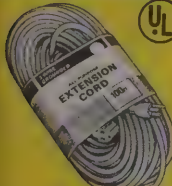
(†) Has through-the-switch ground wire.

3-conductor S, SJ, and SPT cords meet OSHA requirements for indoor applications. (*) 5/16" dia. eyelets.

25 to 100-FT. INDOOR / OUTDOOR EXTENSION CORDS

Heavy duty round extension cords for use in home, factory, construction sites, farms, etc. UL listed. Meet OSHA requirements for both indoor and outdoor applications. Tough vinyl jacket remains flexible at below zero temperatures; resists oils, grease, acids and abrasion.

Can be used with snowblowers, lawn and garden tools, maintenance equipment, power tools, compressors, floor polishers, portable lighting equipment, etc. Safety industrial orange jacket. Stranded, electrical grade copper conductors. Molded-on caps and connectors. Carol brand.

	Gauge & Cond.	Length	Type Jacket	Max. Amps 115V	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
	16/3	25 ft.	SJT	13	3327	2W028	\$5.58	\$4.46	\$4.13	2
	16/3	50 ft.	SJT	13	3354	2W029	11.34	9.07	8.09	4
	16/3	100 ft.	SJT	10	3302	2W030	20.55	16.44	14.65	8
	14/3	25 ft.	SJT	15	3328	2W031	7.06	5.65	5.11	5
	14/3	50 ft.	SJT	15	3356	2W032	11.50	9.20	8.35	6
	14/3	100 ft.	SJT	13	3304	2W033	19.96	15.97	14.72	11
	12/3	50 ft.	SJT	15	6853	2W215	23.29	18.63	17.34	12
	12/3	100 ft.	SJT	15	6801	2W216	44.43	35.54	32.42	24
	12/3	50 ft.	ST	15	55050	2W034	25.98	14.03\$	—	12
	12/3	100 ft.	ST	15	55000	2W035	47.69	24.80\$	—	24

While stocks last.

CORD SELECTION AND APPLICATION GUIDE

Type Jacket	Conductor Insulation	Jacket Insulation	Gauges	Maximum Volts	Duty	Typical Application
SPT-1	Thermoplastic	—	18 to 16	300	Light	Lamps, Appliances, Small Motors
SPT-2	Thermoplastic	—	18 to 16	300	Medium	Lamps, Appliances, Small Motors
SJ	Rubber	Rubber	18 to 16	300	Medium	Portable Tools, Drop Cords
SJT	Plastic	Plastic	16 to 12	300	Medium	Port. Tools, Small Motors, Fans
S	Rubber	Rubber	18 to 10	600	Heavy	Tools, Blowers, Heavy Equipmt.
ST	Plastic	Plastic	12	600	Heavy	Compressors, Motors

Dayton CLAMP-ON VOLT-AMP-OHMMETER TESTERS

Easy-to-Use Pocket-Size Testers are Accurate to Within $\pm 3\%$ of Full Scale Readings

These easy-to-use clamp-on testers quickly and accurately determine running currents, check motor overloads, balance circuits, etc. Clamp-on probe jaws are insulated from sockets, snap around any single conductor up to $\frac{1}{2}$ " dia. Take readings without current shutdown. Equipped with

self-shielding, internal core magnet. Printed circuitry, pocket size. Models 4X090, 4X221 and 5X527 have fused ohmmeter attachment. Models 4X221 and 5X527 have rotary scale and pointer that freezes at reading. Instructions included.

90-Day Limited Warranty
See Limited Warranty Policy in Index

No. 4X221
\$65.85

No. 5X527
\$87.85

No. 4X010
\$27.85



No. 4X010

No. 4X090

Description	Scale Amp Ranges	Scale Volt Ranges	Mid Scale Ohms	Stock No.	Retail	Each	Shpg. Wt.
Volt-Ammeter with voltage leads	0-30 AC	0-150/300 AC	—	4X010	\$39.79	\$27.85	8 oz.
Volt-Amp-Ohmmeter with voltage leads, ohmmeter attachment, adapter*, pouch	0-30 AC	0-150/300 AC	25	4X090	64.07	44.85	12 oz.
9-Scale Volt-Amp-Ohmmeter with voltage leads and pouch	0-6/15/40 100/300 AC	0-150 300/600 AC	25	4X221	94.07	65.85	14 oz.
9-Scale Volt-Amp-Ohmmeter with voltage leads and pouch	0-15/40/100 300/1000 AC	0-150 300/750 AC	25	5X527	125.50	87.85	1

(*) Adapter permits direct reading at AC outlets without splitting cord, and multiplies sensitivity 5 or 10 times.

POUCH FOR VOLT-AMMETER

Leather-like vinyl pouch for No. 4X010 volt-am-

meter. Has snap-shut flap and belt loop. Wt. 1 lb.

No. 4X011. Retail \$5.64. Each.....\$3.

BATTERY-POWERED QUICK-TEMP THERMOMETER

Accepts up to 3 Probes At Same Time. Two Temperature Ranges: -50° to $+50^{\circ}$ F & $+40^{\circ}$ to 150° F

Obtains temperature measurements in seconds. Two temperature scales (-50° to $+50^{\circ}$ F & $+40^{\circ}$ to 150° F) makes unit well suited for air conditioning and refrigeration work as well as industrial applications. Probe selector switch allows operator to check temperatures from 3 probes in quick succession. Press-to-read button reduces battery drain when instrument is not in use; button also locks for continuous testing. Powered by 4 AA batteries, not included. Comes with one all-purpose probe for non-corrosive gaseous, liquid and surface temperatures. Vented air probe for non-corrosive gases, immersion probe for non-corrosive liquids, and carrying case available as optional equipment. Case has space for 3 probes and lets operator check temperatures without removing thermometer.

Dayton

No. 5X666
\$49.85
Thermometer with All-Purpose Probe Less Case



90-DAY LIMITED WARRANTY—S
Limited Warranty Policy in Index.

IMMERSION PROBE NO. 5X667 (Optional)	VENTED AIR PROBE NO. 5X668 (Optional)	ALL-PURPOSE PROBE (Included)

Description	Size	Stock No.	Retail	Each	Shpg. Wt.
Quick-Temp Thermometer with all-purpose 15-ft. probe	4 $\frac{1}{2}$ " H x 2 $\frac{1}{4}$ " W x 1 $\frac{1}{2}$ " D	5X666	\$71.21	\$49.85	8 oz.
Immersion Probe	Length of Lead: 15 Ft.	5X667	14.21	9.95	6 oz.
Vented Air Probe	Length of Lead: 15 Ft.	5X668	14.21	9.95	6 oz.
Carrying Case	5 $\frac{1}{2}$ " H x 5 W x 4" D	5X669	15.14	11.50	8 oz.

Get Delivery from Stock on over 95% of the Merchandise in this MotorBook

Dayton

FIVE-FUNCTION ELECTRICAL CIRCUIT ANALYZER



90-DAY LIMITED WARRANTY
See Limited Warranty Policy in Index

\$54.85

Cable Tracing Function

Allows one man to trace circuits, identify leads in remote outlet boxes.



Speeds Installation, Trouble-Shooting, Maintenance Work. Combines all these Functions:

CABLE TRACER One man can trace up to 10 circuits at one time by placing numbered station markers on leads at each outlet, then using meter to check conductors at junction box. Meter indicates number of station marker at other end of circuit.

VOLTMETER Shows voltage measurement accurate within $\pm 3\%$ over full scale. Calibrated dual scale, 0-125/250 VAC.

AMMETER Measures 0-30 amps AC; snaps around single conductor without interrupting service.

OHMMETER Mid-scale 0-1000 ohms.

CONTINUITY TESTER Finds open and short circuits in wiring, motors, appliances, etc.

Circuit Analyzer has rugged safety yellow case, and comes ready-to-use with ten station markers, two station holders, set of voltage leads, set of grounding leads, and fused battery attachment—all in leather-like vinyl case. 90 day limited warranty. See limited warranty policy in index. Quantity prices on request. Dayton brand. Shpg. wt. 1 lb.

No. 4X588. Retail \$78.36. Each.....**\$54.85**

Dayton

\$10.45

Probes slide in Case for storage



90-DAY LIMITED WARRANTY
See Limited Warranty Policy in Index

COMPACT AC-DC VOLTAGE TESTER

Measures 115 to 350 VAC, 115 to 750 VDC. DC Polarity Indicator

Easy-to-read Dayton tester checks voltage levels of commercial and residential circuits accurately; identifies grounded side of line; checks for blown fuses; distinguishes AC from DC. Reads like a thermometer: columns of neon indicator lights glow progressively to indicate line voltage. Can be read in dimly lit areas. DC polarity shown by separate indicator light. Operates over frequency range of 25 to 800 Hz. 115V AC receptacle check chart on back of tester enables user to inspect outlets for correct wiring.

Has continuous internal contact on captive probe for positive voltage indications with probe in any extended position. Removable probe tips are field replaceable if they become damaged. Spring-loaded captive probe holds securely in lock position. Test button helps distinguish true grounds from apparent grounds due to distributed capacitance. Coil cord extends for measurements up to 40" apart. Rugged ABS plastic case, 6 1/4" H x 2 3/4" W x 1" D. Instructions included. Dayton brand. Shpg. wt. 6 oz.

No. 4X822. AC/DC Voltage Tester. Retail \$14.93. Each.....**\$10.45**

SQUARE D VOLTAGE TESTER

110/220/440/550VAC 60 Hz. 125/250/600VDC

\$11.55 Quickly determines nominal voltage of DC and 60 Hz AC circuits. Easy to use, safer and more rugged than many other testers. Test prod tips are safely-designed, with spring-loaded retractable shrouds surrounding hardened steel spear points to prevent accidental contact of spear point with exposed terminals or bare wires. Entire unit completely sealed in shockproof molded case for operating safety and to protect mechanism from dust, dirt and foreign objects. Tester comes complete with two 30" heavy duty test leads and magnetic DC polarity. Individually cartoned. Square D brand (5008). Shpg. wt. 8 oz.

No. 4X488. Square D AC/DC Voltage Tester. Retail \$21.00. Each.....**\$11.55**



DRY CELL BATTERY CHARGER

For AA, C, D Size Cells, 9V Batteries



No. 22181

\$5.52

Lots 6

Compact unit charges alkaline, nickel-cadmium and ordinary carbon zinc type batteries found in most battery powered appliances, toys, portable calculators, flashlights, etc. Unit plugs into 115V, 60 Hz outlet, begins charging immediately when cover is closed. Charges one to four batteries at a time, same size or intermixed. Burgess Vibrocrafters Inc. brand. (PNC-12M). Shpg. wt. 1 1/4 lbs.

No. 22181. Retail \$6.59. Each \$5.96; lots 6.....**\$5.52**

SEE WARRANTY INFORMATION ON PAGE 684

GE HOOK-ON AC VOLT-AMP-OHMMETER TESTERS

NEW



Voltage leads and carrying pouch included with all models



UL LISTED



No. 6X264

\$43.78



No. 6X265

\$59.50



No. 6X266

\$90.95

Measure AC Volts, Amps & Ohms. For Checking Circuits, Motor Loads and Starting Current, Etc.

For safe, accurate measurement of voltage, current and resistance without shutting down equipment or interrupting operations. Accurate to within plus or minus 3% of full scale for 60 Hz circuits. Current-conducting components are encased in a protective shield that prevents contact with hot wires. Double-insulated, clam around hook prevents grounding to a non-insulated lead and closes properly every time—ensuring maximum operator protection and accuracy of readings. Nos. 6X265 and 6X266 are equipped with a rotary scale and range selector knob for measuring AC voltage, current or resistance. On No. 6X264, a hi/lo switch sets the desired current or voltage range. Amps and ohms are read on black numerals, voltage in red. Also feature a pointer lock for freezing the reading when working in awkward places. Non-conductive Lexan® case and window provide exceptional heat and break resistance. Pocket size, measures 3½ W x 9½ H x 1¼" D. Plug-voltage leads, carrying pouch and instructions included. UL listed. Optional ohms probes are shipped prepaid from Chicago. Order from nearest Grainger address for fastest service. General Electric brand.

Description	AC Volt Ranges	AC Amp Ranges	—AC Ohms*— Range	Ohms*— Midscale	Type Scale	GE Model	Stock No.	Retail	Each	Shp W
4-range Volt-Amp-Ohmmeter with voltage leads and pouch	0-150/600	0-30/150	0-1000	25	Flat	150	6X264	\$51.50	\$43.78	2
7-range Volt-Amp-Ohmmeter with voltage leads and pouch	0-150 300/750	0-5/20 80/350	0-1000	25	Rotary Drum	350	6X265	70.00	59.50	2
8-range Volt-Amp-Ohmmeter with voltage leads and pouch	0-150 300/750	0-10/30/100 300/1000	0-1000	25	Rotary Drum	1000	6X266	107.00	90.95	2

(*) Ohms probes (not included) are shipped prepaid from Chicago. Order from nearest Grainger address for fastest service.

HALIDE GAS LEAK DETECTOR

Quickly Pinpoints Refrigerant, Other Halide Gas Leaks. Turner Brand



\$11.78 Widely used in the refrigeration industry and by auto and home air conditioning service men to locate halide gas leaks quickly and easily. Compact, portable unit is easy to use. Simply light flame and check equipment with search hose. If leak is present flame changes color. Comes complete with precision-machined, forged brass valve assembly; rubber search hose; and disposable propane tank. Turner brand (LP-777). Shpg. wt. 2½ lbs.

No. 2Z496. Turner Halide Gas Leak Detector. Retail \$18.42. Each **\$12.69**; lots 6.....**\$11.78**

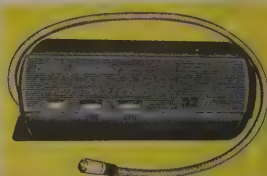
PHONE YOUR ORDERS FOR PICK-UP



You save time and money when you place pick-up orders by phone. We can serve you better by having items ready when your truck gets there. Our customers like our Will-Call service because our people make every effort to provide them with the products they need to satisfy their customers and complete a job on time.

REFRIGERANT LEAK DETECTOR

A Compact, Portable Detector. Battery Operated



\$110.97
Less Batteries

Pinpoints refrigeration leaks as small as one-half ounce per year of R-12. Powered by two size batteries (not included). Flexible 18" probe with sensing element. Shock resistant case protects solid-state components. Built-in reference leak. Weighs 18 oz. with batteries. Dimensions 3.2 W x 7.3 L x 1.8" T. General Electric brand (50-420811AAA). Shpg. wt. 1 lb.

Replacement sensing element and reference leak are shipped prepaid from Chicago. Order from nearest Grainger address for fastest service.

No. 6X277. Retail \$123.30. Each.....**\$110.97**

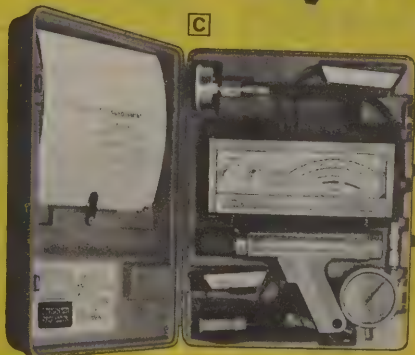
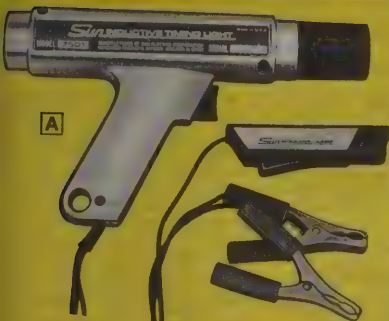
STOCK NO./PAGE NO.
CROSS-REFERENCE GUIDE
FOR THIS MOTORBOOK

Available from your Grainger salesman or counterman. Ask for Form 5S1943.



AUTOMOTIVE TUNE-UP TESTING EQUIPMENT

For Use on American and Imported Automobiles, Trucks and Gasoline-Fueled Internal Combustion Engines. Complete Tune-Up Instructions Included



NEW

A No. 6X251, Inductive Timing Light \$41.98

B No. 6X252, Dwell/Tachometer \$53.97

C No. 2W227, Complete Testing Kit \$149.97

Inductive Timing Light—For setting ignition timing and checking vacuum and centrifugal advance. The inductive pick-up clamps over the spark plug wire, eliminating the need to disconnect wires or install spark plug adapters. Focused xenon tube flash is bright enough to be seen in broad daylight. Solid-state, transistorized circuit is protected from reverse polarity damage. Powered by 12 volt vehicle battery; color-coded, heavy duty battery post clips and 6-ft. cables included. Other features include chrome-plated, die-cast metal housing; pistol-grip handle with trigger switch; and protective rubber nose cone. Can be hooked up while engine is running. Works on all conventional and electronic ignition systems. Complete hook-up instructions included. Sun brand.

Dwell/Tachometer—For checking and adjusting ignition-point dwell angle, engine RPM, circuit resistance, carburetor mixture and idle speeds—plus test dwell variation, cylinder efficiency and PCV valve performance. Meter scale is a wide 6½" for easy reading. Cylinder selection switch for 4, 6 and 8 cylinder engines. Injection selector for low RPM (0 to 1500 scale), high RPM (0 to 6000 scale), dwell (0 to 90° scale), point resistance (Good/Bad scale). Quality-dwell Sun meter, 120° jeweled D'Arsonval movement and solid-state, transistorized circuit for long service life and full scale accuracy. Powered by circuit being tested—no batteries to replace, no battery hook up. Rugged steel housing with injection-molded ABS plastic front panel and padded rubber feet to absorb vibration and protect car finish. Use on all conven-

tional and electronic ignition systems. Instructions for use included. Sun brand.

C Complete Testing Kit includes the inductive timing light and dwell/tachometer described in (A) and (B)—plus these additional items:

Vacuum gauge with standard and metric readings. Scale ranges: 0 to 30" vacuum, 0 to 70 cm vacuum, 0 to 10 lbs. psi and 0 to .7 kg per sq. cm. Chrome-plated steel housing, 3½" dia. face dial. Complete with 48" neoprene hose, T-fitting, 1/8 and 3/8" NPT manifold fitting, universal adapter and PCV valve test band.

Compression tester with standard and metric scales up to 300 lbs. psi and 21 kg per sq. cm. Chrome-plated steel housing, 2½" dia. face dial. Release valve for repeating tests without disconnecting. Comes with 18" long high-pressure hose and integral 14mm and 18mm screw-in spark plug adapter.

Remote starter switch for cranking or starting engine from outside of vehicle. Spring-loaded switch is designed for sensitive bumping or jogging control. Injection-molded, high temperature ABS plastic housing. Includes 4-ft. long neoprene covered copper wire leads and insulated, booted terminal caps.

Carrying case with specially designed compartments for testers and accessories. Included in case lid is a handy 3-ring binder with complete, step-by-step tune-up manual, hook-up instructions and service check list wall chart—plus a prepaid mailer for obtaining specification cards that detail tune-up requirements for each model car and engine. Sun brand.

Description	L	—Dimensions—			Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
		W	H	D					
Inductive Timing Light	11½"	2½"	6¾"	—	CP-7501	6X251	\$69.99	\$41.98	4
Dwell/Tachometer	11½"	—	5½"	4½"	CP-7601	6X252	89.99	53.97	5
Complete Testing Kit	18½"	14½"	—	6¾"	CP-7702	2W227	250.00	149.97	14

SEE WARRANTY INFORMATION ON PAGE 684

DEM-KOTE ACRYLIC SPRAY PAINTS

Available in Enamels, including OSHA Colors for Safety Coding—Also Lacquers & Fluorescents

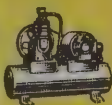


LIMITED WARRANTY

If not satisfied with first can, return for credit. See Limited Warranty Policy in Index.

No. 2X729
\$1.22

Lots 6



**DEM-KOTE SPRAY PRODUCTS
CONTAIN NO FLUOROCARBONS**

WORKSAVER ADJUSTABLE VALVE



Vertical Pattern



Horizontal Pattern

Self-cleaning, two way valve sprays in a vertical or horizontal oval pattern from just 4 to 6" away from the work. Either pattern gives the advantages of better spraying control, less overspray and the kind of even paint coverage that makes unsightly overlaps disappear.

- (*) Closely matches color finish of many Dayton, Speedaire, Teel, other products.
- (**) Rust inhibiting type gray primer.
- (†) Closely matches color of General Electric, Westinghouse and Dayton FHP motors.
- (††) Withstands temperatures to 500°F., up to 1000°F. intermittently.
- (‡) Meets ANSI Specification Z53.1.

Dayton Dem-Kote spray paints are top quality and backed by a liberal limited warranty—if not satisfied with first can, return for credit. Packed 6 cans of one color per carton. Shpg. wt. per carton approximately 8 lbs.

Properties: Fast drying—dries tack-free in 2 to 1 minutes, hard within 45 minutes to one hour. Outstanding gloss and color durability, indoors or out. Resistant to marring; also resists attack from gasoline and oil. Even and full coverage—lightweight, powerful propellant puts more paint on the work. Exceptional adhesion and flexibility on metal.

ACRYLIC BASE SPRAY ENAMELS

Color Description	Stock No.	Retail	Each	Lots 1 Color
White, Gloss (OSHA St'd.t.)	2X712	\$2.49	\$1.47	\$1.22
White, Appliance	2X986	2.49	1.47	1.22
Gray, Machine	2X710	2.49	1.47	1.22
Gray, Industrial*	2X984	2.49	1.47	1.22
Gray, Blue†	2X729	2.49	1.47	1.22
Gray, Primer**	2X982	2.49	1.47	1.22
Black, Gloss (OSHA St'd.t.)	2X711	2.49	1.47	1.22
Black, Flat	2X717	2.49	1.47	1.22
Red, Gloss	2X713	2.49	1.47	1.22
Red, Medium*	2X985	2.49	1.47	1.22
Red, Int. Harvester	2W003	2.49	1.47	1.22
Red, Massey Ferguson	2W004	2.49	1.47	1.22
Red, Bright (OSHA St'd.t.)	2W097	2.49	1.47	1.22
Orange, Implement	4X590	2.49	1.47	1.22
Orange, Allis Chalmers	2W006	2.49	1.47	1.22
Orange, Gloss (OSHA St'd.t.)	2W100	2.49	1.47	1.22
Yellow, Gloss	2X715	2.49	1.47	1.22
Yellow, Caterpillar	2W007	2.49	1.47	1.22
Yellow, Fed. Highway	2W009	2.49	1.47	1.22
Yellow, Bright (OSHA St'd.t.)	2W152	2.49	1.47	1.22
Green, Machine	2X983	2.49	1.47	1.22
Green, Medium	2X732	2.49	1.47	1.22
Green, Metallic*	4X854	2.49	1.47	1.22
Green, John Deere	2W005	2.49	1.47	1.22
Green, Light (OSHA St'd.t.)	2W099	2.49	1.47	1.22
Blue, Medium	2X731	2.49	1.47	1.22
Blue, Ford	2W008	2.49	1.47	1.22
Purple, Gloss (OSHA St'd.t.)	2W098	2.49	1.47	1.22
Gold	2X721	2.49	1.47	1.22
Copper	2X722	2.49	1.47	1.22
Chrome-Silver	2X724	2.49	1.47	1.22
Aluminum, Hi-Heat††	4X042	3.00	1.80	1.22

NITROCELLULOSE BASE SPRAY LACQUERS

Gray-Blue	5X626	\$2.49	\$1.47	\$1.22
Black	5X627	2.49	1.47	1.22

SAFETY COLOR FLUORESCENTS

Red	2W011	\$3.50	\$2.07	\$1.22
Orange	2W012	3.50	2.07	1.22
Yellow	2W010	3.50	2.07	1.22

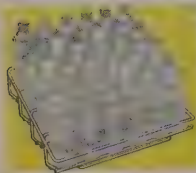
COLOR CHIP FOLDER AVAILABLE ON REQUEST

FLOOR & COUNTER DISPLAY RACKS

Compact spray can racks made of sturdy, heavy-gauge steel wire, painted an attractive white. Counter rack holds 24 cans, floor rack holds 120 cans. Free with minimum order. See below.

Rack	Stk. No.	Each	SPECIAL OFFER
Counter	4X037	\$3.88	Free with order of 48 cans
Floor	4X915	14.63	Free with order of 144 cans

(‡) Assorted cans (6 can minimum of one item).



DEM-KOTE SPECIALTY INDUSTRIAL SPRAYS

LIMITED WARRANTY

If not satisfied with first can, return for credit. See Limited Warranty Policy in Index.

**FOR PROTECTING, LUBRICATING,
DEGREASING AND CLEANING.
DAYTON DEM-KOTE BRAND**

SPRAY PENETRATING OIL

Unlocks frozen or rusted movable parts in seconds, also lubricates in hard-to-reach places. Specially formulated material gives thorough penetration and fine control. Harmless to paint. Shpg. wt. 8 lbs. per carton of 6.

No. 2X725. Retail \$1.95. Each \$1.10; lots 6.....98c

SPRAY DEGREASING SOLVENT

Specially made for motors and electrical equipment. Deep penetration loosens dirt, heavy grease and tars for easy cleanup. Non-corrosive, non-staining and non-flammable. Harmless to insulation. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 2X726. Retail \$2.15. Each \$1.40; lots 6.....\$1.23

BLUE LAYOUT SPRAY

Paint for metal workers. Pigmented, non-corrosive, oil-resistant ink provides a marking surface on metal, glass or plastics for precision work. Dries instantly to a non-glaze, smooth finish. Shpg. wt. 7 1/2 lbs. per carton of 6.

No. 4X593. Retail \$3.70. Each \$2.26; lots 6.....\$1.91

BATTERY TERMINAL SPRAY

Prevents corrosion on storage battery terminals and hold-down clamps. Provides an airtight and waterproof insulation that guards against current loss and prolongs battery life. Resists gasoline, oil, grease and heat; won't crack or peel. Yellow spray. Shpg. wt. 7 1/4 lbs. per carton of 6.

No. 4X041. Retail \$3.09. Each \$2.03; lots 6.....\$1.66

SILICONE LUBRICANT SPRAY

All-purpose lubricant for hard-to-reach areas. Eliminates friction squeaks, also protects wood, plastic, rubber, metals and other materials from moisture and tarnish. Easily removed with solvent wash. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 2X988. Retail \$3.00. Each \$1.80; lots 6.....\$1.49

4-IN-1 MULTI-PURPOSE OIL

Works 4 ways. As a rust preventative it spreads a thin, rust-inhibiting film. As a penetrant it is similar to penetrating oil. As a demulsant, it breaks out electrical components and prevents overheating. As a lubricant, it is excellent for automatic machines and precision instruments. Shpg. wt. 8 1/2 lbs. per carton of 6.

No. 5X628. Retail \$3.50. Each \$2.08; lots 6.....\$1.82

CLEAR PLASTIC SPRAY

Provides a clear, glossy acrylic coating that protects and beautifies wood, leather, metal and paper surfaces. Prevents rust and tarnish on metals. Shpg. wt. 8 lbs. per carton of 6.

No. 1X723. Retail \$2.05. Each \$1.24; lots 6.....\$1.10

COLD GALVANIZING COMPOUND

Forms a 95% pure zinc film that fuses itself to iron, steel or aluminum by electro-mechanical reaction. Perfect for repairing galvanized finish damaged in shipment, assembly, welding, etc. Protects as well or better than hot-dip galvanizing—also blends well with factory galvanized finish. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 2W013. Retail \$3.33. Each \$2.10; lots 6.....\$1.74

CLASS F, RED INSULATING ENAMEL

Dielectric strength 1700 volts/mil dry, 1300 volts/mil wet. Sprays a quick-drying, tough, flexible, oilproof and waterproof insulation for motor windings, electrical components, etc. Excellent arc resistant and non-tracking properties. Also used as a protective coating and sealant on oil, water and gas pipe. Red spray. Shpg. wt. 8 lbs. per carton of 6.

No. 2X727. Retail \$2.50. Each \$1.52; lots 6.....\$1.34

GREEN EPOXY INSULATING VARNISH

High dielectric strength (Class F) of over 1900 volts/mil dry; over 1400 volts/mil wet (ASTM-D115-55). Can be baked or air dried. Extra-hard surface is oil and waterproof. Insulates motor windings, electrical components, etc. High arc-resistant and non-tracking properties. Green spray. Shpg. wt. 7 1/4 lbs. per carton of 6.

No. 4X592. Retail \$2.69. Each \$1.85; lots 6.....\$1.55

CONTACT CLEANER SPRAY

Rapidly removes stubborn oxidation, carbon and corrosion deposits from contacts on electrical and electronic equipment. Leaves a protective film. May harm certain plastics and air-dried paint surfaces. Test before applying—use sparingly. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 4X598. Retail \$3.50. Each \$2.08; lots 6.....\$1.77

SPRAY BELT DRESSING

Increases power drive up to 50% on flat, round or V belts. Can be sprayed on belt while in operation. Will not glaze or collect dirt on belt—does not contain asphalt or resin. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 2X987. Retail \$2.65. Each \$1.55; lots 6.....\$1.29

OPEN GEAR & WIRE ROPE LUBE

Provides high-performance lubrication and rust prevention for gears, cables, chains, wire rope, etc. Has strong adhering properties. Penetrates deep into pores of metal and core of wire rope. Black spray proves coverage. Withstands extreme temperature—will not wash away. Shpg. wt. 7 1/2 lbs. per carton of 6.

No. 4X595. Retail \$2.50. Each \$1.47; lots 6.....\$1.22

ANTI-RUST FILM SPRAY

Sprays a protective film that inhibits rust and corrosion on tools, machinery, instruments, auto bumpers, marine equipment, etc. Transparent film is long-lasting—harmless to paint or plastic. Shpg. wt. 8 1/4 lbs. per carton of 6.

No. 4X597. Retail \$2.80. Each \$1.70; lots 6.....\$1.41

SEE WARRANTY INFORMATION ON PAGE 684

1/4 - 1/2" DRIVE PROFESSIONAL

TEMPERED-TUFF Alloy For Exceptional Strength

DAYTON QUALITY TOOLS are manufactured by master craftsmen on the finest equipment available. Material, design and production specifications are rigidly controlled to insure proper hardness of forged alloy steels . . . uniform finish quality (sockets have a high polish, nickel chrome finish) . . . and close size tolerance. Each tool embodies exceptional balance and strength for efficient use, long service life.

11-PC. SET, 1/4" DRIVE

\$7.53

A basic set for ignition repair light electrical work, small appliances, etc. Includes nine 6-pt. sockets: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/7/16 and 1/2". Plus 8" square shank spinner in sturdy metal case, 2 1/2" D x 1 H x 6 1/2" W. Wt. 1 lb. No. 4X047. Retail \$12.55. Each \$8.16; lots 3. \$7.53.

14-PC. SET, 1/4" DRIVE

\$14.58

For the individual who requires added job versatility in a 1/4" drive set. Includes nine sockets in set above—plus 5" flex handle, 2 and 6" extensions and 4 1/2" reversible ratchet. Metal carrying case, 3 1/2" D x 1 1/4" H x 6 7/8" W, includes Shpg. wt. 1 3/4 lbs.

No. 4X980. 14-Pc., 1/4" Drive Set. Retail \$24. Each \$15.80; lots 3. \$14.58.

29-PC. SET, 1/4 & 3/8" DRIVE

\$37.70

Provides a full range of socket components necessary for handling broad range of industrial, mechanical and workshop requirements.

1/4" DRIVE SOCKETS: Nine 6-pt. sockets—3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2".
3/8" DRIVE SOCKETS & ACCESS: Two 6 sockets—3/8 and 7/16"; seven 12-pt. sockets—1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8"; and 12-pt. deep sockets—5/8 and 13/16". Also flex handle; 2 1/2, 5 and 10" extensions; 7 1/2" reversible ratchet; 16 1/2" speeder; universal joint and 3/8(F) to 1/4(M) adapter. Includes metal case, 4 3/4" D x 1 1/2" H x 17 3/4" W. Shpg. wt. 7 lbs.

No. 4X983. 29-Pc. Combination Set. Retail \$68. Each \$40.84; lots 3. \$37.70.

11-PC. SET, 3/8" DRIVE

\$14.33

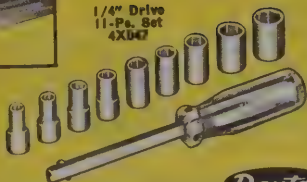
A basic set that provides socket components necessary for doing numerous repair and maintenance jobs around the shop or home. Includes two 6-pt. sockets—3/8 and 7/16"; and five 12-pt. sockets—1/2, 9/16, 5/8, 11/16 and 3/4". 13/16" spark plug socket, 2 1/2" extension, 7 1/2" reversible ratchet. Comes with 3 1/2" H x 8 3/4" W metal case. Shpg. wt. 2 lbs.

No. 4X981. 11-Pc., 3/8" Drive Set. Retail \$24. Each \$15.52; lots 3. \$14.33.

Dayton tools are American-made from highest quality alloy steel. Care is taken to select materials with the proper combination of qualities to insure machining accuracy and maximum strength.

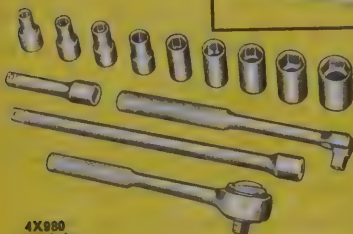


1/4" Drive
11-Pc. Set
4X047



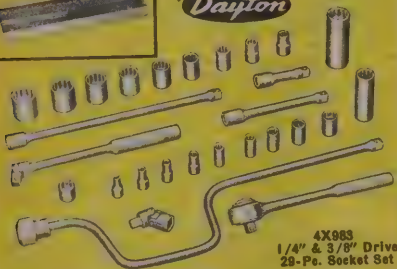
Dayton

Dayton



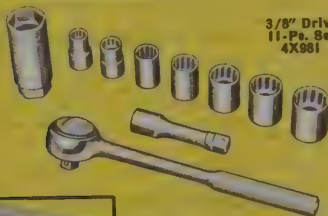
4X980
1/4" Drive
14-Pc. Set

Dayton



4X983
1/4" & 3/8" Drive
29-Pc. Socket Set

3/8" Drive
11-Pc. Set
4X981



Dayton



QUALITY SOCKET WRENCH SETS

Wide Selection of Sets to Meet Most Any Need

LIFETIME LIMITED WARRANTY

Tools on these two pages are warranted to the original user for the life of the product. See Limited Warranty Policy in Index.

18-PC. SET, 3/8" DRIVE

An excellent general-use set for automotive work, plant maintenance and a multitude of other jobs. Includes two 6-pt. sockets—3/8 and 7/16"; seven 12-pt. sockets—1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8"; and two 12-pt. deep sockets—5/8 and 13/16". Also 10" flex handle, 2 1/2" and 10" extensions, 7 1/2" reversible ratchet, 16 1/2" speeder, universal joint, and 4 3/4" D x 17 3/4" W metal case. Shpg. wt. 6 lbs.

No. 4X982. 18-Pc., 3/8" Drive Set. Retail \$49.10. Each \$31.92; lots 3.....\$29.46

17-PC. SET, 1/2" DRIVE

A popular starter set. Add pieces as needed. Has eleven 12-pt. sockets—7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1". Plus 13/16" spark plug socket, 18" flex handle, 5" extension, 10" reversible ratchet, universal joint, and 4 D x 18 7/8" W metal carrying case. Wt. 8 lbs.

No. 4X984. 17-Pc., 1/2" Drive Set. Retail \$56.75. Each \$36.89; lots 3.....\$34.05

24-PC. SET, 1/2" DRIVE

A complete 1/2" drive set that includes all of the tools necessary to do basic engine work, machine repairs, etc. Has fifteen 12-pt. sockets—7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 5/32, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 and 1 1/4. Also 18" 12-pt. deep socket and 13/16" spark plug socket—plus 18" flex handle, 5 and 10" extensions, 10" reversible ratchet, 18" speeder, universal joint and sliding T. Set is furnished with r without 7D x 8H x 19 3/4" W mechanics hip-roof metal box with tool-tote tray.

24-Pc. Set	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
With Box	7X026	\$90.16	\$59.48	\$54.97	21
Less Box	4X985	72.78	47.31	43.67	10

9-PC. DEEP SOCKET SETS

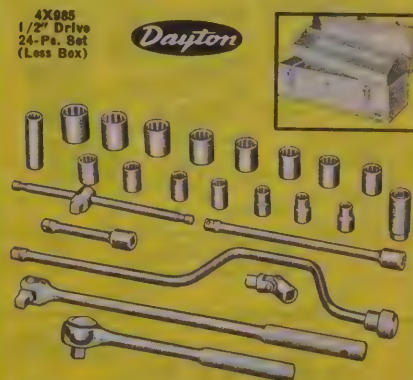
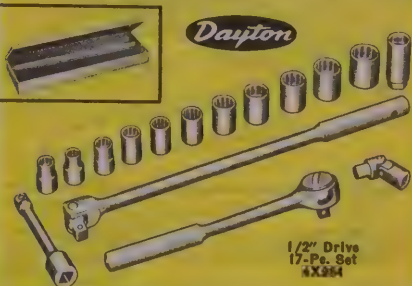
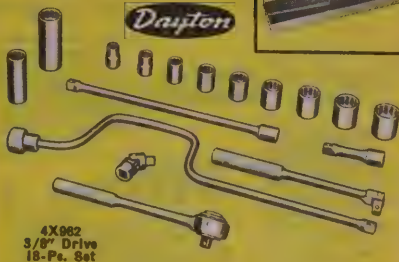
3/8 or 1/2" Square Drive. 6 & 12-Pt. Sockets must for hard-to-reach nuts set down over bolts. Precision hot ratched for full accuracy.

8" DRIVE SET: Has two 6-pt. sockets—3/8 and 1/2"; and six 12-pt. sockets—1/2, 9/16, 5/8, 11/16, 4 and 13/16"; and 3 3/4" D x 1 1/16" H x 10 1/2" W metal case.

2" DRIVE SET: Has eight 12-pt. sockets—2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 and 15/16"; us 3 3/4" D x 1 1/16" H x 10 1/2" W metal case.

Square Drive	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
3/8"	4X476	\$18.88	\$12.27	\$11.33	2
1/2"	4X477	26.25	17.06	15.75	4

16" SPARK PLUG SOCKET, Neoprene Insert
4X989. 3/8" Square Drive. Shpg. wt. 4 oz. tail \$3.13. Each \$2.19; lots 6.....\$2.03
4X990. 1/2" Square Drive. Shpg. wt. 4 oz. tail \$3.18. Each \$2.23; lots 6.....\$2.07

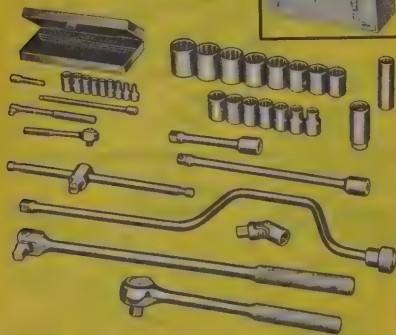
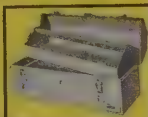


1/4, 1/2 & 3/4" DRIVE SOCKET WRENCH SETS

TEMPERED-TUFF Alloy For Exceptional Strength and Long Service Life

1/4 & 1/2" Drive
39-Pc. Socket Set
7X027

Dayton



39-PC. SET, 1/4 & 1/2" DR.

\$69.55

Popular among tradesmen in industrial, automotive, aircraft and other fields for repairing and assembling engines and machinery, production and farm equipment, etc.

1/4" DRIVE SET: Nine 6-pt. Sockets—3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 and 1/2". Also 5" flex handle, 2 and 6" extensions, and 4 1/2" reversible ratchet. 3 1/2" D x 1 1/4" H x 6 3/4" W metal case keeps parts separated from 1/2" drive items listed below.

1/2" DRIVE SET: Fifteen 12-pt. sockets—7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 and 1 1/4". Also 5/8" 12-pt. deep socket and 13/16" spark plug socket—plus 18" flex handle, 5 and 10" extensions, 10" reversible ratchet, 18" speeder, universal joint, sliding T.

Set is supplied with 7D x 8 H x 19 3/4" W hip roof metal box with tool-tote tray. Wt. 23 lbs. No. 7X027. 39-Pc. Combination Set. Retail \$114.46. Each \$75.28; lots 3.....\$69.55

57-PC. SET, 1/4 & 1/2" DR.

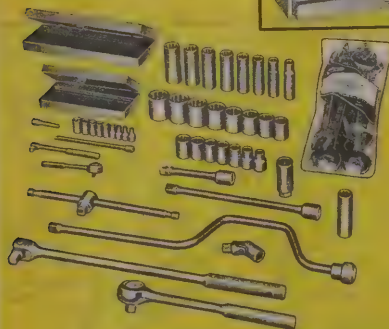
No. 7X028

Includes all of the 1/4 and 1/2 drive items described in 39-pc. set above (except hip-roof metal box).

Plus eight 1/2" drive, 12-pt. deep sockets (1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 and 15/16") in 3 3/4" D x 1 1/4" H x 10 1/2" W metal case—and 10-pc. open end wrench set in vinyl pouch. Wrench size openings: 1/4-5/16, 3/8-7/16, 7/16-1/2, 1/2-9/16, 9/16-5/8, 19/32-11/16, 5/8-3/4, 3/4-7/8, 13/16-25/32 and 15/16-1". Complete set is supplied with or without two-draw mechanics chest, 8D x 9 1/2" H x 18 1/4" W.

57-Pc. Set	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
With Chest	7X029	\$187.64	\$123.45	\$114.07	38
Less Chest	7X028	158.06	102.74	84.84	21

7X028
1/4 & 1/2" Drive
57-Pc. Socket Set



10 PC. SET, 3/4" DRIVE

No. 4X994

A basic 3/4" drive set that contains most frequently required socket sizes for machinery installations, construction work, truck repair, and other heavy-duty jobs. Includes seven 12-pt. sockets—1 1/16, 1 1/8, 1 1/4, 1 1/2, 1 5/8, 1 3/4, and 1 7/8". Also 18" flex handle, 18" extension and 20" reversible ratchet. Supplied with or without 8 1/2" D x 9 1/2" H x 20" W tool box with tote tray.

\$54.33

10-Pc. Set	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
With Box	7X030	\$109.85	\$72.37	\$66.88	21
Less Box	4X994	90.55	58.88	54.33	11

3/4" DRIVE SOCKETS—1 1/4 to 2" Opening

No. 4X995. Set of four 12-pt. large sockets—1 1/4, 1 1/2, 1 3/4 and 2". Shpg. wt. 8 lbs. Retail \$33. Each \$21.81; lots 3.....\$20.

15-PC. SET, 3/4" DRIVE

\$87.01

Combines all of the 3/4" drive items described above into one set. Includes 10-pc. socket set plus metal box with tote tray (7X030), and four extra-large sockets (4X995). Shpg. wt. 37 lbs. No. 7X031. 15-Pc., 3/4" Drive Set. Retail \$143. Each \$94.18; lots 3.....\$87

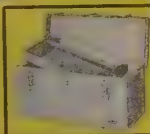
LIFETIME LIMITED WARRANTY

Tools on this page are warranted to the original user for the life of the product. See Limited Warranty Policy in Index.

4X994
3/4" Drive
Socket Set



Dayton



4X995 3/4" Drive
Sockets

METRIC TOOL SETS

A must for servicing foreign machinery, cars, motorcycles, snowmobiles, bicycles, etc. Both sets contain complete range of most widely required metric sizes.

\$21.05

4X993, Lots 3

\$12.06

12-PC. WRENCH SET: Contains twelve combination box and open-end wrenches, each drop-forged and heat treated for extra strength and service life. Sizes include 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 millimeter. In snap-shut clear vinyl pouch.

14-PC. SOCKET SET: Includes thirteen sockets for 3/8" drive attachments. Sizes: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 millimeter. Supplied in flip-lid metal tray, 1 1/4"D x 1 1/4"H x 10 1/2"W.

Metric Set	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Wrench	4X993	\$35.08	\$22.80	\$21.05	2
Socket	4X992	20.10	13.07	12.06	1

REVERSIBLE RATCHETS

Available in 1/4, 3/8 or 1/2" Square Drive

Tested more times under full load than the average user could hope to match in a lifetime of use— with no serious wear. Compact head. Thirty-two teeth grip pawl tightly to provide a short, smooth stroke for working in tight areas. Knurled handle assures a firm grip.

\$4.86

Lots 6

Square Drive	Length in.	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
1/4"	4 1/2"	4X336	\$7.48	\$5.24	\$4.86	4 oz.
3/8"	7 1/2"	4X356	10.90	7.63	7.09	1 lb.
1/2"	10"	4X385	13.18	9.23	8.57	1 lb.

FLEX-HEAD RATCHET

3/8" Square Drive. Reversible. Adjustable Head

Adjustable head allows ratchet to be positioned on angle for working in hard-to-reach areas. Excellent for removing spark plugs. No-slip knurled handle. Overall length 11". Shpg. wt. 1 lb.

\$10.99

Lots 6

No. 4X991. Ret. \$16.90. Ea. \$11.83; lots 6, \$10.99

TORQUE WRENCH

1/2" Square Drive. Up To 150 Ft.-Lbs. Pressure

Gives exact tightening tension on 1/16 thru 5/8" diameter bolts. Recommended by engine manufacturers for cylinder heads, connecting rods, main bearings, spark plugs, etc. Easy-to-read scale is graduated in ft.-lbs. Accurate to plus or minus 1% of full scale. Compact head design. Overall length 18 3/4". Shpg. wt. 1 1/4 lbs.

\$14.64

Lots 3

No. 5X590. Torque Wrench. Retail \$22.53. Each \$15.77; lots 3, \$14.64

SPARK PLUG SOCKETS

1/16" 6-pt. deep sockets for 3/8 1/2" square drive attachments. Neoprene insert protects plugs.

\$2.03

4X989, Lots 6

Square Drive	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
3/8"	4X989	\$3.13	\$2.19	\$2.03	4 oz.
1/2"	4X990	3.18	2.23	2.07	4 oz.

No. 4X988. SOCKET ADAPTER for converting 3/8" drive to 1/4" drive. Socket 3/8(F) to 1/4"(M). t. 2 oz. Retail \$2.13. Each \$1.49; lots 6, \$1.38

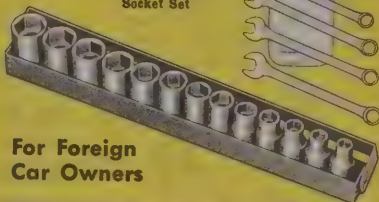
LIFETIME LIMITED WARRANTY

Tools on this page are warranted to the original user for the life of the product. See Limited Warranty Policy in Index.

4X993
Metric Wrench
12-Pc. Comb. Set

Dayton

4X992
3/8" Drive
14-Pc. Metric
Socket Set



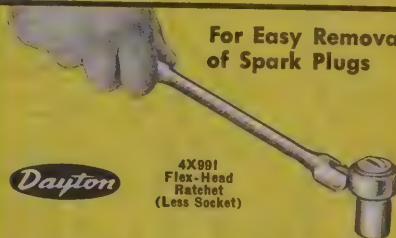
For Foreign
Car Owners

Dayton



4X336
3/8" Drive
Reversible Ratchet

For Easy Removal
of Spark Plugs



Dayton

4X991
Flex-Head
Ratchet
(Less Socket)

5X590
Torque
Wrench



Assures Exact
Tightening
Tension

4X989 or 4X990
Spark Plug Socket

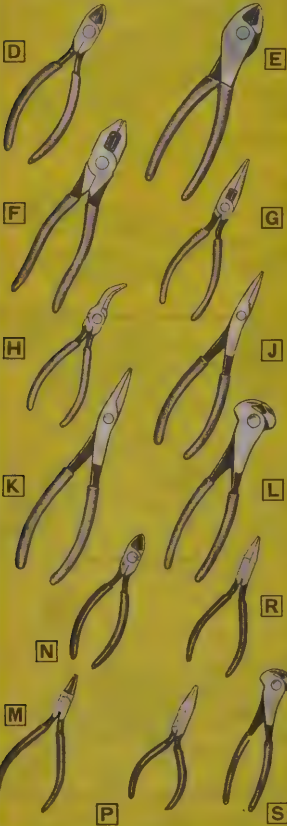


4X988
Socket Adapter

Dayton

LIFETIME LIMITED WARRANTY

Dayton pliers are warranted to the original user for the life of the product. See Limited Warranty Policy in Index.



No. 5X629
Mech. Pliers

\$4.19

Lots 3

Engineered and built for mechanics, electricians, professional repairmen, production line workers, etc. Forged from fine grain, tempered alloy steel for exceptional strength; individually fitted, adjusted and tested for performance. Meet or exceed MIL and GSA specs. Tools on this page are warranted to the original user for the life of the product. See Limited Warranty Policy in Index.

MECHANICS PLIERS include 3 widely used types. Slip-joint pliers (fig. A) are nickel-chrome plated and have precision-milled jaws with two-position adjustment. Tongue & groove pliers (fig. B) have full polished heads, cushion-grip handles, and a 1½" or 2¾" jaw opening. Adjustable plier-wrenches (fig. C) exert 1000 lbs. pressure in locked position—work as a handvise, clamp, pipe wrench or pliers.

ELECTRICIAN PLIERS (fig. D thru L) cover an exceptionally wide range of applications for the electrician and other professional tradesmen. All have full polished heads—plus permanently bonded, cushion-grip handles for added comfort.

MINIATURE PLIERS (Fig. M thru S) are ideally suited for all types of electronic work, or for any other applications where working room is exceptionally tight. Cutting edges are induction heat treated, jaws are spring tempered for long service life.

Fig.	Type	Size (Length)	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
MECHANICS PLIERS							
A	Slip-Joint	6"	5X629	\$6.45	\$4.52	\$4.19	4 os.
A	Slip-Joint	8	5X630	7.90	5.53	5.14	12 os.
B	Tongue & Groove	10	5X631	10.73	7.51	6.97	1
B	Tongue & Groove	14	5X632	13.45	9.42	8.74	1½
C	Plier-Wrench	7	4X135	3.89	2.72	2.53	12 os.
C	Plier-Wrench	10	4X136	4.10	2.87	2.66	1
ELECTRICIAN PLIERS							
D	Diagonal Cutter	6"	5X633	\$6.98	\$4.89	\$4.54	1
E	H.D. Diag. Cutter	7½	5X634	7.20	5.04	4.68	1
F	Lineman's	7	5X635	7.98	5.59	5.19	1
F	Lineman's	8	5X636	9.68	6.78	6.29	1
F	Lineman's	9	6X091	10.83	7.58	7.04	1
G	Long Nose Cutter	6	5X637	6.83	4.78	4.44	4 os.
H	Curved Nose	6	5X638	7.30	5.11	4.75	12 os.
J	Needle Nose	8	5X639	8.10	5.67	5.27	4 os.
K	Duck Bill	8	5X640	7.30	5.11	4.75	1
L	End Nipper	7	5X641	8.20	5.74	5.33	12 os.
MINIATURE PLIERS							
M	Round Nose	4½	6X086	\$6.38	\$4.47	\$4.15	2 os.
N	Diagonal Cutter	4	6X087	6.33	4.43	4.11	2 os.
P	Short Chain Nose	4	6X088	6.10	4.27	3.97	4 os.
R	Short Flat Nose	4	6X089	5.65	3.96	3.67	4 os.
S	End Nipper	4½	6X090	6.75	4.73	4.39	4 os.

Thousands of Dealers and Service Men Depend On Grainger Supply Service For Pick-ups and Same-Day Shipping

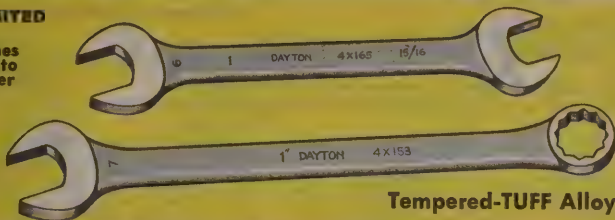


Dayton OPEN-END & COMBINATION WRENCHES

LIFETIME LIMITED WARRANTY

Dayton wrenches are warranted to the original user for the life of the product

See Limited Warranty Policy in Index



Tempered-TUFF Alloy Steel

Precision-made of Tempered-TUFF, drop-forged alloy steel. Long length and slim body for extra leverage and clearance. Milled open ends and broached box ends with accurate size openings. Combination wrenches have 12-point box end forged to 15° offset (not bent). Nickel-chrome

plated, polished heads. Sets supplied in pouch or roll-up kit. Individual wrenches also available. All Dayton wrenches on this page are warranted to the original user for the life of the product. See Limited Warranty Policy in Index. Dayton Brand.

OPEN-END WRENCH SETS



No. 4X142
\$20.84
10-Pcs., Lots 3

No. 4X142. 10-PC. SET. Includes 1/4 to 1" wrenches in pouch. Openings: 1/4-5/16, 3/8-7/16, 1/2-9/16, 5/8-11/16, 3/4-7/8, 25/32-13/16 and 15/16-1". Shpg. wt. 3 lbs.

Retail \$34.73. Each \$22.57; lots 3.....**\$20.84**

No. 4X141. 6-PC. SET. Includes 3/8 to 13/16" wrenches in pouch. Openings: 3/8-7/16, 1/2-9/16, 19/32-11/16, 5/8-3/4, 3/4-7/8 and 25/32-13/16". Shpg. wt. 2 lbs.

Retail \$20.13. Each \$13.08; lots 3.....**\$12.08**

No. 4X140. 5-PC. SET. Includes 1/4 to 3/4" wrenches in pouch. Openings: 1/4-5/16, 3/8-7/16, 1/2-9/16, 19/32-11/16 and 5/8-3/4". Shpg. wt. 12 oz.

Retail \$14.48. Each \$9.41; lots 3.....**\$8.69**

INDIVIDUAL WRENCHES

1/4 TO 1" OPEN-END WRENCHES

Opening Sizes	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
1/4" & 5/16"	4X157	\$2.40	\$1.68	\$1.56	4 oz.
3/8 & 7/16	4X158	2.50	1.75	1.63	4 oz.
7/16 & 1/2	4X159	2.73	1.91	1.77	4 oz.
1/2 & 9/16	4X160	2.90	2.03	1.89	8 oz.
9/16 & 5/8	4X161	3.20	2.24	2.08	12 oz.
19/32 & 11/16	4X162	3.48	2.44	2.26	12 oz.
5/8 & 3/4	4X163	3.93	2.75	2.55	1
3/4 & 7/8	4X164	5.10	3.57	3.32	1
25/32 & 13/16	4X979	5.10	3.57	3.32	1
15/16 & 1	4X165	6.25	4.38	4.06	1

COMBINATION WRENCH SETS



No. 4X139
\$42.09
14-Pcs., Lots 3

No. 4X139. 14-PC. SET. Sizes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 and 1 1/4". In roll. Shpg. wt. 11 lbs.

Retail \$70.15. Each \$45.60; lots 3.....**\$42.09**

No. 4X138. 11-PC. SET. Sizes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 and 1". In pouch. Shpg. wt. 5 1/2 lbs.

Retail \$39.55. Each \$25.71; lots 3.....**\$23.73**

No. 4X993. 12-PC. METRIC SET. Sizes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19 millimeter. In pouch. Shpg. wt. 3 lbs.

Retail \$35.08. Each \$22.80; lots 3.....**\$21.05**

No. 4X137. 5-PC. SET. Sizes 3/8, 7/16, 1/2, 9/16 and 5/8". In pouch. Shpg. wt. 1 1/2 lbs.

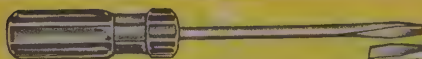
Retail \$13.68. Each \$8.89; lots 3.....**\$8.21**

3/8 TO 1 1/4" COMBINATION WRENCHES

Openings, Both	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
3/8"	4X143	\$2.53	\$1.77	\$1.64	4 oz.
7/16	4X144	2.73	1.91	1.77	4 oz.
1/2	4X145	2.93	2.05	1.90	12 oz.
9/16	4X146	3.13	2.19	2.03	12 oz.
5/8	4X147	3.30	2.31	2.15	12 oz.
11/16	4X148	3.53	2.47	2.29	1
3/4	4X149	4.08	2.86	2.65	1
13/16	4X150	4.55	3.19	2.96	1
7/8	4X151	5.33	3.73	3.46	1
15/16	4X152	6.55	4.59	4.26	1
1	4X153	7.30	5.11	4.75	1
1-1/16	4X154	9.40	6.58	6.11	1 1/2
1-1/8	4X155	10.73	7.51	6.97	1 3/4
1-1/4	4X156	13.08	9.16	8.50	2

Dayton PROFESSIONAL QUALITY SCREWDRIVERS

Tempered Tuff Alloy Steel Blades



Lifetime Limited Warranty—Dayton screwdrivers are warranted to the original user for the life of the product. See Limited Warranty Policy in Index

No. 4X472 Dayton heavy-duty, professional screwdrivers have built-in quality **71c** throughout for exceptionally long Lots 6 service life in rugged, daily use. Fully-polished blades are hot forged from Tempered-Tuff alloy steel. Tips are precision ground.

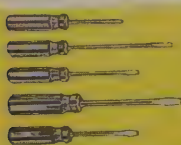
Shockproof, contoured handles provide a comfortable, firm grip for maximum turning power. Individual screwdrivers are packed 6 to a carton. Sets come in plastic pouch and contain screwdrivers frequently used for automotive or electrical work. Dayton brand.

ELECTRICIANS' & MECHANICS' INDIVIDUAL SCREWDRIVERS—Shockproof Handles

Blade Size	Type	Stock No.	Retail	Each	Lots 6	Shpg. Wt.	Blade Size	Type	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
4 x 1/4"	Mech. Rd.	4X465	\$1.65	\$1.24	\$1.16	2 oz.	8 x 3/8"	Mech. Sq.	4X469	\$3.60	\$2.70	\$2.52	8 oz.
6 x 5/16"	Mech. Rd.	4X466	2.37	1.78	1.66	5 oz.	4 x 3/8"	Elect. Rd.	4X470	1.20	.90	.84	3 oz.
1 1/4 x 1/2"	Stubby	4X464	1.57	1.18	1.10	1 oz.	6 x 3/8"	Elect. Rd.	4X471	1.33	1.00	.93	3 oz.
4 x 3/4"	Mech. Sq.	4X467	1.89	1.42	1.32	5 oz.	3 x 3/8"	Phillips #1	4X472	1.01	.76	.71	2 oz.
6 x 3/8"	Mech. Sq.	4X468	2.61	1.96	1.83	8 oz.	4 x 3/4"	Phillips #2	4X473	1.33	1.00	.93	2 oz.

ELECTRICIANS' & MECHANICS' 5-PC. SCREWDRIVER SETS

WITH SHOCKPROOF CONTOURED HANDLES



ELECTRICIANS'

Blade Size	Type
3x3/8" Rd.	No. 1 Pt. Phillips
6x3/8" Rd.	Electricians
4x3/8" Rd.	Electricians
6x3/8" Rd.	Mechanics
4x3/8" Rd.	Mechanics

MECHANICS'

Blade Size	Type
4x1/4" Rd.	No. 2 Pt. Phillips
4x3/8" Rd.	Electricians
6x3/8" Sq.	Mechanics
4x3/8" Rd.	Mechanics
1 1/4 x 1/4" Sq.	Stubby

Type	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Elect.	4X474	\$8.37	\$6.28	\$5.44	8 oz.
Mech.	4X475	9.07	6.80	5.90	1

WITH CUSHION-GRIP HANDLES



ELECTRICIANS'

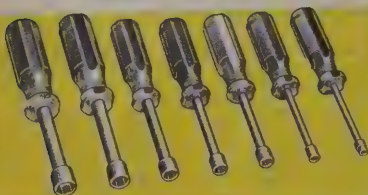
Blade Size	Type
3x3/8" Rd.	No. 1 Pt. Phillips
6x3/8" Rd.	Electricians
4x3/8" Rd.	Electricians
6x3/8" Rd.	Mechanics
4x3/8" Rd.	Mechanics

MECHANICS'

Blade Size	Type
4x1/4" Rd.	No. 2 Pt. Phillips
4x3/8" Rd.	Electricians
6x3/8" Sq.	Mechanics
4x1/4" Rd.	Mechanics
1 1/4 x 1/4" Sq.	Stubby

Type	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Elect.	6X182	\$11.07	\$7.20	\$6.64	1
Mech.	6X183	12.19	7.92	7.31	1

Dayton FRACTIONAL & METRIC NUT DRIVERS



identify proper size. Fractional set sizes: 3/16, 1/4, 5/16, 11/32, 3/8, 7/16 and 1/2". Metric sizes: 5, 5.5, 6, 7, 8, 9 and 10 millimeter. Individual nut drivers are packed 6 to a carton. Sets come in plastic pouch. Dayton brand.

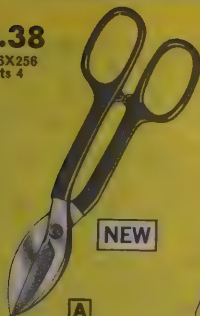
FRACTIONAL & METRIC 7-PC. SETS

Type	No. Sizes in Set	Stock No.	Retail	Each	Lots 3
Fract.	7	5X507	\$21.83	\$15.28	\$14.19
Metric	7	6X092	21.88	15.32	14.22

FRACTIONAL INDIVIDUAL NUT DRIVER

Size	Length	Stk. No.	Ret.	Each	Lots 6
3/16"	6 1/4"	5X508	\$2.88	\$2.02	\$1.87
1/4"	6 1/4"	5X509	2.88	2.02	1.87
5/16"	6 1/4"	5X510	2.88	2.02	1.87
11/32"	6 1/4"	5X511	2.88	2.02	1.87
3/8"	6 1/4"	5X512	2.88	2.02	1.87
7/16"	6 1/4"	5X513	3.15	2.21	2.05
1/2"	6 1/4"	5X514	3.15	2.21	2.05

\$14.19 Available in 7-piece sets or individually. Top quality, chrome plated, hot-forged steel shanks with hollow core for use on long-shank bolts. Excellent for repairing radio, TV, etc.; used like a screwdriver to tighten nuts in position inaccessible to regular wrench. Size clearly marked on shank of each piece. Shockproof, unbreakable handles are color-coded to

Dayton**DROP-FORGED METAL-CUTTING SNIPS****\$3.38**No. 6X256
Lots 4**NEW****A**
REGULAR TYPE
for straight cuts**NEW****B**
DUCKBILL TYPE
for straight, irregular
and circular cuts**C****AVIATION TYPE**
for left, right
or circular cuts**NEW****D**
NEEDLE NOSE TYPE
for light metal and
wire cutting

Professional quality snips designed and built for fast, accurate cutting in sheet metal, wire, creening, gasket material, leather, linoleum, roofing materials, plastics, etc. Made from high-carbon or molybdenum-alloy tool steel and heat treated for toughness, strength and durability.

Aviation-type snips have polished, serrated blades to prevent slippage; other types have polished, hollow ground blades. Individually fitted to assure uniform cutting action. Vinyl grips for user comfort. Meet or exceed rigid Federal specifications. Dayton brand.

Fig.	Type	Cutting Action	Blade Length	Overall Length	Stock No.	Retail	Each	Lots 4 Asst'd.	Shpg. Wt.
A	Regular	Straight	13 1/4"	7"	6X256	\$5.20	\$3.64	\$3.38	8 oz.
A	Regular	Straight	2 1/2"	10"	6X257	6.75	4.72	4.39	1
A	Regular	Straight	3"	12 1/2"	6X258	8.23	5.76	5.34	1 1/4
B	Duckbill	**	13 1/4"	7"	6X253	5.63	3.94	3.66	8 oz.
B	Duckbill	**	2 1/2"	10"	6X254	7.23	5.06	4.70	1
B	Duckbill	**	3"	12 1/2"	6X255	9.05	6.34	5.88	1 1/4
C	Aviation	Left	1 1/2"	10"	4X863	7.93	5.55	5.15	1
C	Aviation	Right	1 1/2"	10"	4X864	7.93	5.55	5.15	1
C	Aviation	Straight	1 1/2"	10"	4X865	7.93	5.55	5.15	11 oz.
D	Needle Nose*	**	1 1/4"	6 1/2"	6X259	6.38	4.47	4.15	4 oz.

(*) Designed for cutting light metal and wire up to .025" thick.

(**) For cutting straight, irregular or circular patterns.

**\$160.65****METAL CUTTING ELECTRIC SHEAR**

Cuts 16 Ga. Sheet Steel at the Rate of 16 Feet per Minute
Cutting Blades Adjustable for Depth and Clearance

A labor-saving professional tool for sheet metal contractors, heating and air conditioning installers, fabricators and others who work with light gauge metals. Delivers 3750 strokes per minute for cutting 16 ga. sheet steel or heavier non-ferrous metals. Offset shoe keeps cutting blade visible, assures perfectly straight cuts or precise circular patterns. Cutting blades adjustable for depth and clearance.

Heavy-duty double-pole AC/DC switch is located in handle for instant control at all times. Powerful 4.0 amp. AC/DC, 25/60 Hz motor. Ball and roller bearing construction. Heat treated alloy steel gears. Lightweight die-cast aluminum housing. Six ft. 3-cond. cord. Comes with one set of cutting blades. Shear length 10 1/4". Net wt. 8 1/2 lbs. UL and CSA listed. Shpg. wt. 9 1/4 lbs.

No. 22418. Dayton Metal Cutting Electric Saw. Retail \$189.00. Each.....**\$160.65**

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

you'll like what you see at Grainger's—the large, well-stocked—the well-informed men and women who serve you.



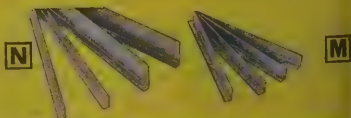
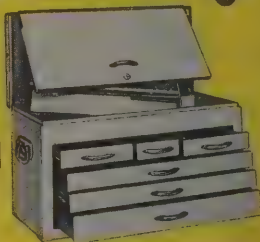
So, the next time you need something, come in and see how well we are set up to give you quick, competent service.

SEE WARRANTY INFORMATION ON PAGE 684



CABINET FEATURES

1. Corner posts wrap-around a full 1 1/4" to provide strength for keeping drawers aligned under heavy loads.
2. Bottom floor is one-pc. steel with criss-cross embossing for increased load capacity.
3. Double wall construction provides exceptional structural strength . . . requires no cross supports that take up usable space.
4. Pull-down compartment cover activates steel locking bar . . . when panel is closed drawers lock.



ROLLER CABINETS and ACCESSORIES

Dayton

A 10-drawer chest has six drawers $7\frac{7}{8}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, one drawer $4\frac{1}{4}$ W x $10\frac{3}{4}$ D x $6\frac{1}{4}$ H, and three full-width drawers $22\frac{1}{2}$ W x $10\frac{3}{4}$ D (two are $1\frac{1}{8}$ high, one is $2\frac{1}{2}$ high). Cover locks drawers when closed. Tumbler key lock. $18\frac{1}{2}$ W x $7\frac{1}{4}$ D x $1\frac{1}{2}$ H tote tray. Red finish.

B 5-drawer roller cabinet has four drawers $2\frac{3}{4}$ W x $16\frac{3}{4}$ D x $3\frac{1}{4}$ H, and one drawer $22\frac{1}{2}$ W x $16\frac{3}{4}$ D x $6\frac{1}{4}$ H. Lower compartment measures $23\frac{1}{2}$ W x $17\frac{1}{2}$ D x $9\frac{3}{4}$ H. Steel locking bar locks drawers when compartment panel is closed. Tumbler key lock. Four 4" casters, two rigid and two swivel plate. Red enamel finish.

C 6-drawer chest has two drawers $4\frac{5}{8}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, one drawer $11\frac{1}{4}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, and three full-width drawers $22\frac{1}{2}$ W x $10\frac{3}{4}$ D (two are $1\frac{1}{8}$ high; the other $2\frac{1}{2}$ high). Cover locks drawers when closed. Tumbler key lock. Tote tray has socket divider, measures $18\frac{1}{2}$ W x $7\frac{1}{4}$ D x $1\frac{1}{2}$ H. Red enamel finish.

D 3-drawer adder chest has full-width drawers $2\frac{3}{4}$ W x 11 D x $2\frac{1}{2}$ H. Tumbler lock on pull-down panel. Compact. Red enamel finish.

E 3-drawer roller cabinet has three full-width drawers $22\frac{1}{2}$ W x $16\frac{3}{4}$ D (two are $3\frac{1}{8}$ high, one is $6\frac{1}{4}$ high). Bottom compartment $23\frac{1}{2}$ W x $17\frac{1}{2}$ D x $9\frac{3}{4}$ H. Pull-down compartment cover locks drawers automatically. Tumbler key lock. Our 3" roller bearing casters, two rigid and two swivel plate. Red enamel finish.

F 12-drawer chest is similar to No. 2W026 10-drawer chest except the center drawer is converted to three small drawers for added tool separation and storage space. Tote tray with socket divider measures $18\frac{1}{2}$ W x $7\frac{1}{4}$ D x $1\frac{1}{2}$ H. Has three drawers $4\frac{1}{4}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, drawers $7\frac{7}{8}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, and three full-width drawers $22\frac{1}{2}$ W x $10\frac{3}{4}$ D (two are $1\frac{1}{8}$ H, one is $2\frac{1}{2}$ H). Cover locks drawers when closed. Tumbler key lock. Fits Dayton roller cabinets. Red enamel finish matches finish on Dayton roller cabinets.

G 6-drawer accessory tool cabinet can be attached to side of roller cabinets (left, right or back side) or set on work bench for additional storage of small parts, metric tools, etc. Six full-width drawers each measure $8\frac{1}{4}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H. Tumbler key lock. Red enamel finish.

H 11-drawer roller cabinet provides maximum space and tool separation. Unit has six drawers $10\frac{5}{8}$ W x $16\frac{3}{4}$ D x $1\frac{1}{8}$ H—plus five full-width drawers $22\frac{1}{2}$ W x $16\frac{3}{4}$ D (three are 3" H; two are $6\frac{1}{8}$ H). Tumbler key lock secures all drawers. Four 4" casters, two rigid and two swivel plate with toe brake. Red enamel finish.

J Roller cabinet side shelf provides 2 square feet of added work area. Double arm support holds heavy tools and instruments, can also be used as work table. Folds flat against side of cabinet when not needed. Fits Dayton roller cabinets and most other makes. Has $\frac{3}{8}$ " side rail. Red enamel finish.

K 6-drawer drop-front chest combines a hinged drawer front panel and watershed back hinge to keep contaminants out. Ideal for work areas where dust, water, machine chips, oil or other airborne material is present. Tote tray with socket divider measures $18\frac{1}{2}$ W x $7\frac{1}{4}$ D x $1\frac{1}{2}$ H. Has two drawers $7\frac{7}{8}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, one drawer $4\frac{1}{4}$ W x $10\frac{3}{4}$ D x $1\frac{1}{8}$ H, and three full-width drawers $22\frac{1}{2}$ W x $10\frac{3}{4}$ D (two are $1\frac{1}{8}$ H, one is $2\frac{1}{2}$ H). Tumbler key lock. Fits Dayton roller cabinets. Red enamel finish.

L 7-drawer machinists chest has five drawers $8\frac{5}{8}$ W x $7\frac{1}{4}$ D (four are 1" high, one is 2" high). Two full-width drawers are $18\frac{1}{4}$ W x $7\frac{1}{4}$ D x $1\frac{1}{2}$ and 2" H. All drawers are felt-lined with adjustable partitions. Top compartment measures 20 W x $8\frac{5}{8}$ D x $3\frac{3}{4}$ H. Front locking panel slides under bottom drawer. Tumbler key lock with two drawbolts. Brown wrinkle enamel finish.

M Set of 4 chest dividers. Fit from front-to-back in drawers of Dayton chests. Each divider is held in place by spring clip to prevent shifting from side to side. Adds compartments to drawers for tool or part separations. No sharp edges. $1\frac{1}{8}$ H x $10\frac{1}{2}$ L. Red enamel finish. Sold in packages of 4 only.

N Set of 4 roller cabinet dividers. Similar to chest dividers above but in sizes to fit Dayton roller cabinets. Set of 4 includes two dividers $1\frac{1}{8}$ H x $16\frac{1}{2}$ L and two dividers $2\frac{3}{8}$ H x $16\frac{1}{2}$ L. Spring clips furnished. Red enamel finish. Sold in packages of 4 only.

	Description	Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
		W	D	H				
A	10-Drawer Chest	26 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	19"	2W026	\$152.55	\$106.79	74
B	5-Drawer Roller Cabinet	26 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "	36"	3W032	198.53	138.97	122
C	6-Drawer Chest	26 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	15"	2W025	113.15	79.21	56
D	3-Drawer Adder Chest	26 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	10 $\frac{1}{4}$ "	2W027	74.95	52.46	39
E	3-Drawer Roller Cabinet	26 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "	29 $\frac{3}{8}$ "	3W031	140.89	98.69	97
F	12-Drawer Chest	26 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	19"	2W212	159.07	111.35	75
G	6-Drawer Access. Cabinet	9"	12"	15"	2W228	68.23	47.76	35
H	11-Drawer Roller Cabinet	26 $\frac{1}{8}$ "	18 $\frac{1}{8}$ "	34 $\frac{3}{4}$ "	3W112	316.73	221.71	172
J	Roller Cabinet Side Shelf	17 $\frac{1}{4}$ "	15 $\frac{1}{4}$ "	14"	2W214	21.85	15.30	10
K	6-Drawer Drop-Front Chest	26 $\frac{1}{8}$ "	12 $\frac{1}{8}$ "	15"	2W213	131.70	92.19	59
L	7-Drawer Machinists Chest	20 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	2W021	80.08	56.06	32
M	Set of 4 Chest Dividers	—	10 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	6X310	3.68	2.58	11 oz.
N	Set of 4 Cabinet Dividers, Two	—	16 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	6X311	4.65	3.26	2
	Two	—	16 $\frac{1}{2}$ "	2 $\frac{3}{8}$ "				

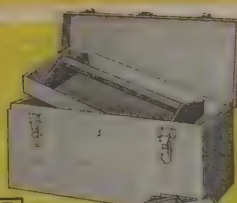
STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.



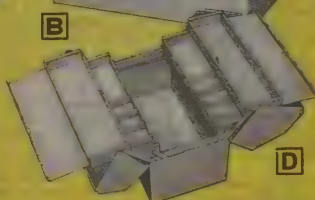
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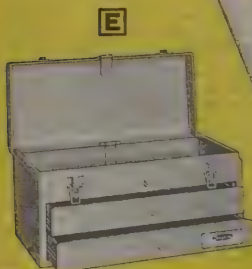
B



C



D



E

DISPLAY STAND



No. 2W151. All-Metal Dayton Display Stand. Each. \$15.00
 With \$100.00 Purchase **\$7.50**
 With \$150.00 Purchase **\$5.00**
 With \$200.00 Purchase **FREE**

Note: Stand can be adapted for displaying other Dayton products such as meters, tools, etc.

A 16 W x 7 D x 7 1/2" H tool box with heavy duty tote tray. Plated drawbolt has padlock eye for locking. With carrying handle. Gray finish.

B 20 and 24 W x 8 1/2 D x 9 1/2" H tool boxes with 3-compartment tote tray. Have two heavy-duty, plated drawbolts plus padlock hasp. Formed steel handle. Gray enamel finish.

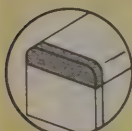
C Hip roof tool box provides extra space for large tools in tote tray. Has socket divider in tote tray plus oversize drawbolts and hasp for padlocking. Gray enamel finish.

D Cantilever tool box has four cantilever trays. Two top trays have lids to protect tools; two bottom trays have dividers for tool separation. Two-way hip-roof cover opens wide for easy tool selection. Has two drawbolts plus padlock hasp. Brown wrinkle finish.

E Portable 2-drawer tool box has 16 W x 7 D 2" H drawers, and 2 1/2" high top compartment. Bar automatically locks drawers when cover closed. Has two plated drawbolts plus padlock hasp. Top handle. Gray enamel finish.

Key	Description	Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
		W	D	H				
A	16" Box w/Tote Tray	16"	7"	7 1/2"	2W022	\$13.53	\$9.47	7 1/2
B	20" Box w/Tote Tray	20	8 1/2	9 1/2	2W023	20.27	14.18	13
B	24" Box w/Tote Tray	24	9 1/2	9 1/2	2W211	29.80	20.85	23
C	Hip Roof Box w/Tote Tray	19 3/4	7	8	2W019	18.28	12.79	9 1/2
D	Cantilever Box	18	10 1/2	12 3/4	2W024	42.95	30.07	20
E	Portable 2-Drawer Box	18 1/2	8	9 1/2	2W020	31.10	21.77	15

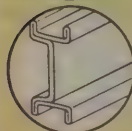
CONSTRUCTION FEATURES—DAYTON TOOL BOXES AND CHESTS*



WELDED END CAPS on cover add reinforcement, keep cover square and tight throughout life of unit.



CHROME-PLATED HARDWARE. One-piece drawbolts won't pull apart; hasp is welded inside, can't be chiseled off. All chests are equipped with tumbler key lock.



DRAWER SLIDES are roll-formed from one-piece steel for strength and straightness—keep drawers moving smooth and easy, even when fully loaded.



CURVED WATERSHED cover protects full-length piano hinge, makes box or chest more weathertight. Hinge pin can't be knocked out.

(*) Dayton tool chests are shown on previous page.

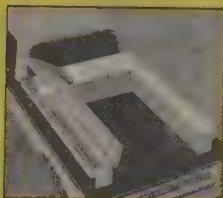


\$117.50

Crossover
Truck Box

\$85.75

Innerside
Truck Box



A Crossover Pickup Truck Box rests on truck side panels, directly behind the cab. Unit fits snugly within the truck frame to prevent movement, leaves ample space between the box and truck floor. Lid opens from either side, top tool tray with compartment dividers (see footnote for dimensions) slides to either side. Features torsion bar automatic lid opener, cylinder

lock, pushbutton lid release and a concealed, continuous hinge to prevent dust and water from entering. White enamel finish on zinc phosphate undercoating for all-weather protection. Fits standard 1967 and later Ford, Dodge, Chevrolet, GMC and International wide bed pickup trucks.

B Innerside Pickup Truck Box is designed for use alone or with crossover box to provide additional storage space for tools, parts and equipment. Pushbutton lock. Rubber seal protects contents against dirt and water. A permanent divider tray (see footnote for dimensions) extends full length of box. White enamel finish on zinc phosphate undercoating. Fits standard 1967 and later Ford, Dodge, Chevrolet, GMC and International wide bed pickup trucks.

Key	Description	Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
		W	D	H				
A	Crossover Pickup Truck Box*	70 $\frac{1}{8}$ "	20 $\frac{1}{4}$ "	15 $\frac{1}{4}$ "	3W106	\$167.85	\$117.50	108
B	Innerside Pickup Truck Box*	69 $\frac{5}{8}$ "	11 $\frac{11}{16}$ "	13 $\frac{5}{16}$ "	3W107	122.50	85.75	66

*** INSIDE BOX DIMENSIONS:** Crossover box, No. 3W106—62 $\frac{1}{4}$ " W x 20 D x 13 $\frac{1}{4}$ " H. Sliding tool tray is 2 $\frac{1}{2}$ " H with four compartments, one 18 $\frac{3}{4}$ " W x 12 $\frac{1}{16}$ " D, one 8 W x 6 $\frac{1}{2}$ " D, one 5 $\frac{3}{4}$ " W x 6 $\frac{1}{2}$ " D, and one 4 $\frac{1}{16}$ " W x 6 $\frac{1}{2}$ " D. Innerside box, No. 3W107—69 W x 8 D x 11" H. Permanent, full-width tray is 3 D x 3" H with six compartments, two 14 $\frac{1}{2}$ " W, two 11 $\frac{1}{2}$ " W and two 5" W.

WORKSHOP TOOL & PARTS CABINET

Hangs on Wall or Sets on Workbench. Opens to 60 L x 24 H x 6" D. 24-Gauge Steel Construction

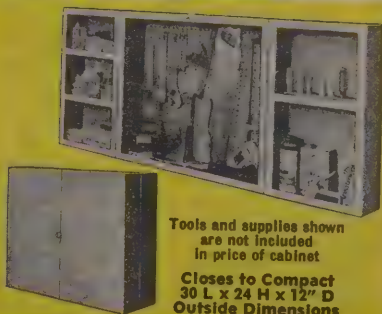
All steel cabinet stores and secures tools and service items out of the way—adds workspace to existing work bench. For hand and power tools, small parts, lubricants, spray cans, first-aid items, etc. Heavy 24-gauge welded steel construction. Double doors open 60 inches wide, close to compact 30 L x 24 H x 12" D outside dimensions. Magnetic catch holds doors closed. Hasp on door fits standard padlock (not included), safeguards tools and miscellaneous items from pilferage or unwanted users. For workshop, service area, garage, utility room, basement, office, anywhere storage and security are needed. One door has built-in tool rack and small parts tray, other door has 3 built-in shelves. All steel pegboard back accepts standard pegboard hooks (included). Gray enamel finish. Edsall brand (WC-1). Shpg. wt. 27 lbs.

No. 2W178. Workshop Cabinet. Retail \$38.48. Each \$31.17; lots 3.....\$29.24

No. 2W178

\$29.24

Lots 3



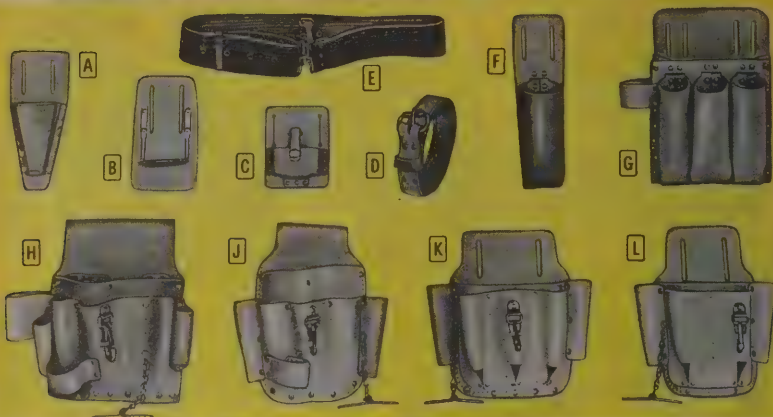
Tools and supplies shown are not included in price of cabinet

Closes to Compact 30 L x 24 H x 12" D Outside Dimensions

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You save time and money when you place pick-up orders by phone. Our people can have your merchandise ready when your truck arrives, and a special Will-Call section at our counter gives your driver extra-fast service.

Dayton TOP-GRAIN LEATHER TOOL HOLDERS



A Molded plier pocket carries up to 9" plier. Has opening at bottom for plier nose to protrude. Strap leather used throughout.

B Steel loop hammer holder has 2" wide U loop secured to strap leather.

C Steel rule tape holder handles tapes as large as the 16 ft. Stanley. One-hand push up design. Button-snap strap.

D Leather work belt, 1 1/4" wide with cast buckle. Fits 29 to 46" waist.

E Poly web belt, 2 1/4" wide with government spec hardware. Adjustable up to 46" waist.

F Plier or box rule holder has molded 1 1/4 W x 6" D pocket. Riveted construction.

G Sheet metal workers pouch features a large box-shaped inside pocket with divider, 2 open-end side pockets for screwdrivers, 3 front pockets and a hammer loop.

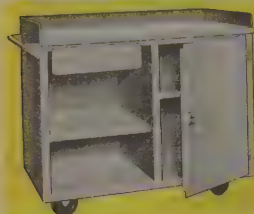
H Electrician's pouch has 2 flared inside pockets with center divider and 3 back-wall screw driver loops, 3 flared front pockets, 2 open-end side pockets for screwdrivers, rule tape holder, hammer loop, harness snap for small tool or knife, and swing chain T bar for friction tape.

J Serviceman's utility pouch has 3 outside tool pockets (each 2" wide), one 6 x 6 1/2" inside pocket, 2 open-end side pockets for screwdrivers, T-shaped friction tape chain, hammer loop and metal tool snap.

K Six pocket pouch features a 6 1/2 W x 6" inside pocket, 3 bellowed outside pockets, open-end screwdriver pocket on each side, T-shaped tape chain and metal harness snap.

L Five pocket pouch has one large inside pocket and 2 outside plier pockets, plus 2 open-end side pockets for screwdrivers. Also T-shaped tape chain and metal snap for knife or small tool.

Key	Description	Overall Size	Stock No.	Retail	Each	Shpg. Wt.
A	Molded Plier Pocket	3 1/2 x 8 1/4"	5X856	\$2.29	\$1.60	2 oz.
B	Steel Loop Hammer Holder	4 1/2 x 8	5X857	1.68	1.18	2 oz.
C	Steel Rule Tape Holder	3 1/2 x 6 1/2	5X858	2.29	1.60	2 oz.
D	Leather Work Belt	1 1/4" Wide	5X859	3.60	2.52	4 oz.
E	Poly Web Belt	2 1/4" Wide	5X860	3.89	2.72	5 oz.
F	Plier or Box Rule Holder	3 x 10	5X861	3.44	2.41	2 oz.
G	Sheet Metal Workers Pouch	7 1/2 x 10 1/2	5X862	11.15	7.81	1
H	Electricians' Pouch	8 1/2 x 10	5X863	11.89	8.32	1 1/2
J	Serviceman's Utility Pouch	7 1/2 x 9	5X864	9.20	6.44	1
K	Six Pocket Pouch	10 x 9	5X865	10.32	7.22	11 oz.
L	Five Pocket Pouch	8 x 9	5X866	6.25	4.38	8 oz.



MOBILE MAINTENANCE BENCH

Pressed-Wood Work Surface. 5" Diameter Rubber Casters

\$141.06

Lots 3

Unit provides the work surface of a bench, t storage area of a work cabinet and the mobility of a service cart. Rolls easily to the work area on 5" diameter rubber casters. Pressed-wood work surface is 42" W x 24" D. Closed section is 18 W x 20 x 28" H with adjustable shelf and key-locked door. Open section is 24 W x 20 D x 28" H with adjustable shelf and 12 W x 18 D x 3" H steel drawer. Rugged, welded steel construction with gray enamel finish. Cabinet shipped assembled. Sh. wt. 130 lbs. Edsal brand. (MB-2442.)

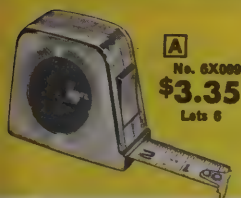
No. 1W827. Retail \$185.61. Each \$150.34; lots 3.....\$141

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP



10 to 100 FT. STEEL MEASURING TAPES

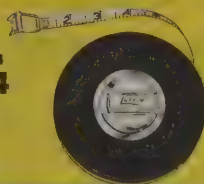
Power Return Tapes Available in English & Metric/English Measure. Also Hand Wind Tapes



A
No. 6X099
\$3.35
Lots 6



B
No. 6X104
\$6.34
Lots 6



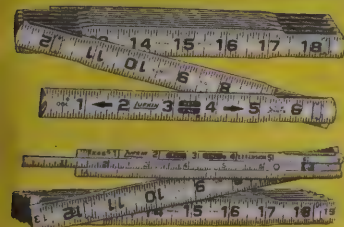
C
No. 6X105
\$8.65
Lots 6

A, B POWER RETURN TAPES in 10, 12, 16 and 25 ft. lengths have steel blade graduated in 16ths, except first foot has 32nds on lower edge, 16ths on upper edge. Markings are black on yellow background—16" stud centers are also clearly marked. Lightweight, unbreakable chrome-plated case with toggle lock, cushioned blade return and convenient belt clip. No. 6X104 (Fig. B) is graduated in feet/inches on upper

edge, millimeters on lower edge. Blade length 5 meters (16 ft.). Lufkin brand.

C HAND WIND TAPES in 50 and 100 ft. lengths have 3/8" steel blade graduated in 8ths. Markings are black, except for feet in red, on white background. Reel-type drum and easy-action winding handle, plus two roller blade guides. Rust-resistant steel case is covered with black vinyl. All-chrome trim. Lufkin brand.

Key	Type	Blade Length	Blade Width	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
A	Power Return	10 Ft.	1 1/2"	Y210	6X099	\$5.15	\$3.61	\$3.35	5 oz.
A	Power Return	12 Ft.	1 1/2"	Y212	6X100	6.00	4.20	3.90	6 oz.
A	Power Return	12 Ft.	1 1/2"	Y12	6X101	7.55	5.29	4.91	6 oz.
A	Power Return	16 Ft.	1 1/2"	Y16	6X102	9.75	6.83	6.34	7 oz.
A	Power Return	25 Ft.	1 1/2"	Y25	6X103	10.49	7.34	6.82	13 oz.
B	Power Return	5 Meters	1 1/2"	Y16ME	6X104	9.75	6.83	6.34	12 oz.
B	Hand Wind	50 Ft.	1 1/2"	HW223	6X105	13.30	9.31	8.65	1
C	Hand Wind	100 Ft.	1 1/2"	HW226	6X106	18.59	13.01	12.08	1 1/4



LUFKIN 6 FT. FOLDING RULES

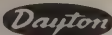
Available with or without 6" Slide Extension

Widely used by carpenters and other professional craftsmen. Bold red and black markings are embedded in wood, and contrast sharply against white background. Markings are protected by a clear, tough epoxy coating—won't chip, peel or discolor. Marked both sides in 16ths with 16" stud centers in red. Riveted brass lock joints are designed to eliminate end play. End caps and strike plates are solid brass to prevent wear. No. 6X107 has a graduated brass slide which extends a full 6" for taking short measurements without opening rule. Lufkin brand. Shpg. wt. 5 oz.

Type Rule	Mfrs. Model	Stock No.	Retail	Each	Lots 6
Standard	066	6X108	\$4.49	\$3.14	\$2.92
Extension	X46	6X107	6.80	4.76	4.42

(Top)
Standard Rule
\$2.92 Lots 6

(Bottom)
Extension Rule
\$4.42 Lots 6

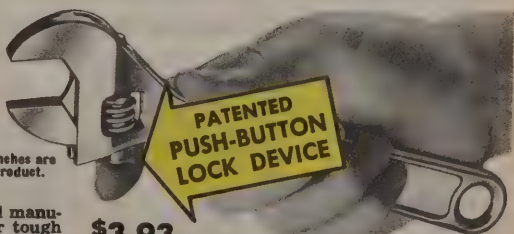


NO-SLIP WRENCHES

FLICK OF FINGER INSTANTLY
LOCKS OR UNLOCKS OPENING

LIFETIME LIMITED WARRANTY—Dayton wrenches are warranted to the original user for the life of the product. See Limited Warranty Policy in Index

Industrial-quality wrenches designed and manufactured for automotive work and other tough jobs. Precision knurl adjusts size opening fast; shbutton locks jaws at desired opening. Move jaw rides in unique D-slot for perfect alignment at all times, even under maximum working stress. True hex shape at any jaw position provides firm grip on work. Precision-made of drop-forged, heat treated alloy steel. Nickel-chrome plated with polished head. Meet Federal Specification G-W-631B-4, Type 1.



\$3.93
6", Lots 6

Size	Jaw Cap.	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
6"	3/4"	4X053	\$6.05	\$4.24	\$3.93	4 oz.
8"	1"	4X054	6.85	4.80	4.45	8 oz.
10"	1 1/4"	4X055	8.89	6.22	5.78	1
12"	1 1/2"	4X056	12.85	9.00	8.35	1 1/4

SEE WARRANTY INFORMATION ON PAGE 684

DAYTON PRECISION-BUILT LEVELS

Built to Last a Lifetime. Replaceable Acrylic Vials are Oversize & Barrel-Shaped Inside to Provide Easy, Accurate Surface Readings at any Angle Through a Full 360°



\$4.31 No. 5X935, Lots 3

Dayton

A 9" TRADESMAN TORPEDO LEVEL—Ideal for electricians and plumbers. Has tough shock-resistant non-conductive case with powerful magnet in base. V-groove on top surface for pipe and conduit work. Open station vials are replaceable on the job; bubble appears at any angle when level is placed against work surface.

B 24" WORKSHOP ALUMINUM LEVEL—Quality-built for the home handyman. Features three easily replaceable vial stations for level and plumb readings. Dust proof vial covers. Extruded I-beam construction for maximum strength with

minimum weight—plus accurately milled faces and end caps.

C, D 24 and 48" TRADESMAN MAGNESIUM LEVELS—Exceptional light weight and strength is achieved through extruded magnesium I-beam construction. Faces are milled for accuracy required by the tradesman. Three vial stations with strong acrylic vials and acrylic screw-on vial covers keep out moisture and dust. Vials and covers can be replaced without affecting accuracy of level. Readings can be made at any angle by placing level against work surface.

Key	Length	Body Size	Type	Number of Vials			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
				Level	Plumb	45°					
A	9"	1 5/8" x 5/8"	Torpedo	1	1	1	5X935	\$6.95	\$4.66	\$4.31	5 oz.
B	24	2 1/2" x 1"	Aluminum I-Beam	1	2	—	5X936	9.24	6.19	5.73	1
C	24	2 3/8" x 1 1/8"	Magnesium I-Beam	1	2	—	5X937	15.84	10.61	9.82	1
D	48	2 3/8" x 1 1/8"	Magnesium I-Beam	1	2	—	2W090	26.58	17.81	16.48	2

DROP-FORGED CLAW, RIP & BALL PEEN HAMMERS

Hickory or Fiberglass Handles. Beveled Faces

Dayton

\$3.08

No. 4X682, Ball Pein

Professional quality hammers. Tempered-Tuff, drop-forged steel heads last a lifetime—even in rugged, day-after-day use. Genuine hickory handles, fire-hardened for extra strength, vinyl coated for weather protection—or indestructible fiberglass handles. Carpenter's claw and rip hammers have full-polished face and head; ball peen hammers are full-polished on face and crown. Beveled faces reduce chipping. Balanced design.



Hammer Type	Head Weight	Handle	Stock No.	Retail	Each	Shpg. Wt.
Claw	16 Oz.	Hickory	4X681	\$6.44	\$4.31	1
Claw	16	Fiberglass	5X525	9.00	6.03	1 1/4
Rip	16	Fiberglass	5X526	9.00	6.03	1 1/4
Ball Peen	16	Hickory	4X684	5.56	3.73	1
Ball Peen	12	Hickory	4X683	5.00	3.35	1
Ball Peen	8	Hickory	4X682	4.60	3.08	11 oz.

SOLID RAWHIDE MALLET



Solid rawhide mallets for use on steel, iron, brass or any soft metal. Won't mar, dent, scar or rebound. Made from choice grade, cured rawhide. Won't split, chip or splinter. Hickory handle. Garland brand. Shpg. wt. 8 and 14 oz.

Head Dia. x L	Handle Length	Mfrs. Model	Stock No.	Retail	Each	Lots 6
1 1/2 x 3"	8 1/2"	2	2X971	\$6.09	\$4.26	\$3.96
2 x 3 1/2"	10	4	2X972	8.21	5.75	5.34

Your Grainger Territory Salesman

Salesman is available to assist you in selection, ordering, quoting quantity prices, etc. He can help you with your supply problems.

TURNER PROPANE GAS TORCH

2300°F Pencil-Point Flame. Brass Valve Assembly

\$8.40

Lots 6



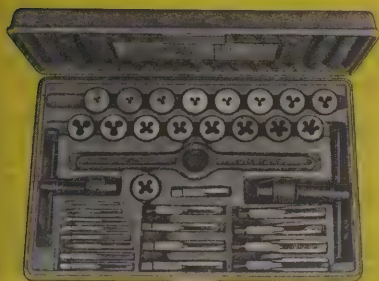
Use to solder, sweat copper tubing, thaw frozen pipes, heat asphalt tile, light fires, repair utensils, loosen bolts, etc. in homes, shops, laboratories, and on the farm. Has precision-machined forged brass valve assembly that is UL listed, plus large 14.1 oz. propane fuel tank that will give 12 to 16 hours of burning service. Accepts No. 1Z690 or other standard size replacement tank. 3" dia., 17" high overall. Turner Brand. (HT 555) Shpg. wt. 2 3/4 lbs.

No. 2Z168. Gas Torch. Retail \$12.56
Each \$9.05; lots 6—\$8.40

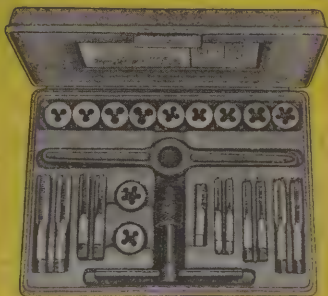
Phone Your Orders—Same Day Service

Dayton TEMPERED ALLOY STEEL TAP and DIE SETS

Tempered-Tuff for Maximum Cutting Life, Smooth Cutting Action. Convenient Case Included



37-PC. SET
\$32.27
No. 4X575
Lots 3



24-PC. SET
\$22.62
No. 4X574
Lots 3

High quality tool sets made to outlast other brands in the price range and give years of usable service to mechanics, repairmen, farmers and home owners. Precision machined to exacting standards, then Tempered-Tuff to assure clean, consistently accurate threading. Packaged in durable, one level molded plastic case with individual fitted compartments for each tool. Dayton brand.

37-Pc. Professional Set. Makes 17 cuts with 17 taps and 16 solid-type 1" OD dies plus 1 solid pipe die. See table below for types and sizes. Also includes die handle and two tap wrenches.

24-Pc. Fractional Set. Makes 11 cuts with 11 taps and 10 solid-type 1" OD dies plus 1 solid pipe die. See table below for types and sizes. Also includes die handle and tap wrench.

SETS CONTAIN TAPS and DIES FOR THESE SIZES

Type Cut	37-Pc. Set, No. 4X575		24-Pc. Set, No. 4X574	
National Coarse (USS) Threads	1/4"-20 5/16"-18 3/8"-16	7/16"-14 1/2"-13	1/4"-20 5/16"-18 3/8"-16	7/16"-14 1/2"-13
National Fine (SAE) Threads	1/4"-28 5/8"-24 3/8"-24	7/16"-20 1/2"-20	1/4"-28 5/16"-24 3/8"-24	7/16"-20 1/2"-20
Machine Screw Threads	4-40 6-32 8-32	10-24 10-32 12-24	— — —	— — —
Pipe Thread	1/8" NPT		1/8" NPT	

TAP and DIE SET PRICES

Set Description	No. Taps	No. Dies	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
37-Pc. Professional	17	17	4X575	\$49.65	\$34.76	\$32.27	4
24-Pc. Fractional	11	11	4X574	\$34.80	\$24.36	\$22.62	3

THREAD RESTORING TOOL



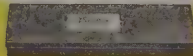
For 1/4 to 1" OD
\$12.96
Lots 3

No. 2X913. 1/4 to 1" OD Thread Restorer. Retail \$18.50. Each \$14.00; lots 3.....\$12.96

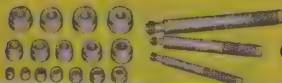
Quick, Friendly Service—Lowest Prices

20-PC. BUSHING TOOL SET

For Removing or Inserting up to 1 1/4" Bushings



\$11.38
Lots 4



Dayton

Set includes 3 drivers and 16 adapters that cover a 3/8 to 1 1/4" ID range and 7/16 to 1 3/8" OD range. Sizes clearly marked. Removes or inserts bushings and bearings, etc., in all types of equipment. Heat-treated steel, plated finish. 12 1/2 L x 4 1/4 W x 1 13/16" D carrying case. Wt. 4 lbs.

No. 4X083. Dayton Bushing Tool. Retail \$17.50. Each \$12.25; lots 4.....\$11.38

TRADESMAN HACKSAW

4 3/4" Throat Depth. Quick Blade Change Lever

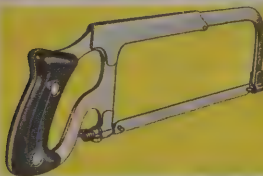


\$10.06 Built to give the day-after-day rugged service that professional tradesmen expect in a saw. Sturdy 3/16 x 3/4" steel frame is plated to resist corrosion and buffed to a smooth, lustre finish. Extra-large 4 3/4" throat depth for sawing through large work. Blade tension lever permits precise guide tensioning, adjusts to accept 10 or 12" blades. Four position blade cuts flush, straight down (vertical) or sideways (left or right). Molded handle with hand guard. One 10" blade included. Order additional blades separately from table below. Dayton brand. Shpg. wt. 3 lbs.

No. 6X447. Dayton Professional Hacksaw. Retail \$15.49. Each \$10.84; lots 3.....\$10.06

WORKSHOP HACKSAW

3 1/4" Throat Depth. Adjusts for 8 to 12" Blades



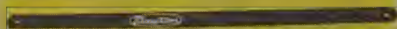
\$5.32
Lots 3

Dayton

Steel 3/16 x 1 1/16" frame is nickel-plated to resist corrosion, also buffed to a smooth finish. Depth of throat 3 1/4". Four blade positions for flush, vertical, left or right cutting. Adjustable to accept 8, 10 and 12" blades. High impact, pistol-grip handle. Furnished with one 10" blade. Additional blades available from table below. Dayton brand. Shpg. wt. 2 lbs.

No. 4X960. Dayton Workshop Hacksaw. Retail \$8.19. Each \$5.73; lots 3.....\$5.32

HI-SPEED HACKSAW BLADES



10" Long

69c

Lots 10

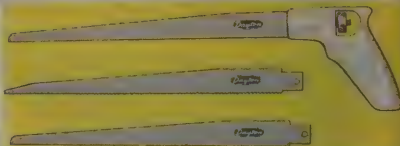
High-speed molybdenum steel with hardened milled teeth for cutting the toughest metals. Safety blade won't shatter. Use 18-tooth to cut heavy bars, large sections of steel, aluminum, etc.; 24-tooth to cut angle iron, pipe, brass, small sections of steel, etc. Meet Federal Spec GGG-B-451d, Type 1, Grade A, Class 1. Individually packaged. Shpg. wt. 2 oz.

Length	Teeth Per In.	Stock No.	Retail	Each	Lots 10
10"	18	4X644	\$0.92	\$0.78	\$0.69
10"	24	4X645	.92	.78	.69
12	18	4X646	1.01	.85	.75
12	24	4X647	1.01	.85	.75
12	32	4X959	1.01	.85	.75

Phone Your Orders for Pick-Ups
or Same-Day Shipping Service

KEYHOLE SAW KIT

Cuts Most Materials. Three Blades Included



\$5.19
Lots 3

Dayton

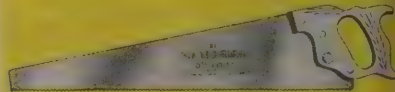
A versatile saw for carpenters, electricians, plumbers, home owners, farmers and others. Cuts practically any material, including steel, iron, wood, plastic, nails, metal lath, asbestos boards, etc. Top quality features include contoured, die-cast handle assembly for easy, one-handed sawing action; knurled tension nut for fastening and removing blade; and quick rotation of blade to eight locking positions.

Includes three 12" blades: One 10-tooth combination wood/metal-cutting blade, one 24-tooth metal-cutting blade, and one 7-tooth wood-cutting blade. Meets Federal spec. GGG-S-0065b, Type 15. Dayton brand. Shpg. wt. 1 1/4 lbs.

No. 6X444. Dayton Keyhole Saw Kit. Retail \$7.99. Each \$5.59; lots 3.....\$5.19

DISSTON 26" HAND SAWS

Crosscut Type. 26" Blade, 8 Teeth per Inch



(Top)
Professional Saw

\$10.12
Lots 5

(Bottom)
Premium Saw

\$6.56
Lots 5

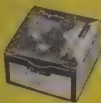
26" Professional Saw, No. 2W209. Most popular hand saw available. Preferred by carpenter maintenance departments, etc. Has long-life chrome-nickel alloy steel blade—hardened, tempered and taper-ground a full 4 gauges from handle to tip to reduce friction and bind. Each crosscut tooth is bevel-filed to the exact angle and degree of sharpness for fast, clear cutting; 8 teeth per inch. Comfort grip hard wood handle is triple-lacquered for long life in everyday use.

26" Premium Saw, No. 2W210. Designed for the frequent home workshop user. Has heavy gauge alloy steel blade, hardened and tempered, provide an excellent cutting edge. Teeth a precision set and file-sharpened for fast, accurate cutting; 8 teeth per inch. Quality hard wood handle is double-lacquered for long life.

Size and Type	Mfrs. Model	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
26" Professional	D-23	2W209	\$15.99	\$10.65	\$10.12	
26" Premium	R-1	2W210	10.35	8.90	8.56	

DAYTON STEEL DRIVE PIN FASTENING TOOL

Uses Steel Pins to Fasten Metal and Wood to Steel and Concrete Without Drilling



DRIVE PINS

\$2.52

$\frac{3}{4}$ " Shank,
Box of 50






\$6.83

Lots 3

A professional tool for quick, easy fastening of furring strips, 2 x 4's, conduit straps, etc. to concrete, cement blocks—even $\frac{3}{4}$ " carbon steel—without drilling. Compact tool is $7\frac{1}{4}$ " long with $1\frac{1}{2}$ " diameter hand grip and $\frac{7}{8}$ " drive head. Easy to use: Insert hardened steel drive pin into tool, grip vinyl handle and hammer drive head to force pin through fastening material and into work surface. Wide guard protects hand and is shaped to permit driving pins close to walls and other surfaces. Shpg. wt. 1 lb.

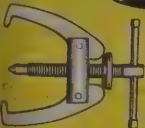
No. 2X782. Fastening Tool, Less Pins. Retail \$10.50. Each \$7.35; lots 3.....\$6.83

DRIVE PINS listed below are hardened steel, packed in boxes of 50. For secure fastening, pin should penetrate old concrete $\frac{1}{2}$ to 1", new concrete, mortar joints or concrete blocks $\frac{3}{4}$ to $1\frac{1}{4}$ ". To select proper size, add thickness of material being fastened to desired penetration depth.

DRIVE PINS for FASTENING: 50 PER BOX		Shank	Stock No.	Retail	Box of 50 Each	Lots 3 Asst'd.	Wt.
	$\frac{3}{4}$ "	Light metal, steel angles and brackets to concrete and steel	4X489	\$3.36	\$2.52	\$2.35	3 oz.
	1	Plywood, steel angles and strap to concrete and steel	4X490	4.57	3.43	3.20	4 oz.
	$1\frac{1}{2}$	Panel-board, plywood, furring strips, conduit clamps, steel angles & straps to concrete, and cement block	4X491	6.11	4.58	4.28	7 oz.
	$2\frac{1}{2}$	2 x 4's to concrete & concrete block	4X492	7.24	5.43	5.07	11 oz.
	$1\frac{1}{4}$	$1\frac{1}{2}$ " L, $\frac{1}{4}$ -20 threaded stud for fastening in concrete & concrete blocks	4X493	6.44	4.83	4.51	11 oz.

3 1/2, 6, 10 & 12" STEEL PULLEY & GEAR PULLERS

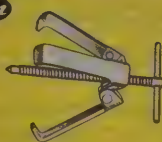
Dayton



3 1/2" Pulley Puller

\$5.48

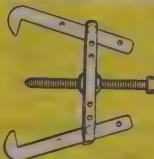
Lots 6



6" 3-Jaw Gear Puller

\$4.19

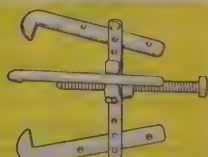
Lots 6



10" Pulley & Gear Puller

\$13.51

Lots 6



12" Pulley & Gear Puller

\$20.84

Lots 6

or removing pulleys, gears, bearings, etc. hardened steel jaws and screws provide long service life. All parts are plated to resist rust.

Jaws are reversible and adjustable on Models 1X454 and 5X718 to accommodate gears, pulleys and other work as large as 10" or 12".

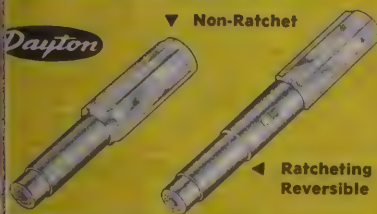
Size*	No. of Jaws	Jaw Length	Screw Length	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
$3\frac{1}{2}$ "	2	$4\frac{1}{16}$ "	$5\frac{3}{8}$ "	1X413	\$ 8.44	\$ 5.90	\$ 5.48	$1\frac{1}{2}$
6	3	4	$6\frac{1}{2}$ "	2X486	6.44	4.51	4.19	1
10	2	$6\frac{1}{2}$ "	7	1X454	20.79	14.55	13.51	4
12	3	$6\frac{1}{2}$ "	7	5X718	32.06	22.44	20.84	5

* Refers to maximum size pulley, gear, etc. that puller will handle.

SELF-ADJUST NUT DRIVER

Automatically Fits Hex Head Nuts up to 7/16"
Available in Ratcheting & Non-Ratcheting Types

Automatically selects proper spring-loaded socket needed to turn hex head nuts, bolts or screws 1/4 through 7/16". Hollow core construction fits over bolt extensions up to $1\frac{1}{2}$ " long. Dayton brand.



▼ Non-Ratchet

◀ Ratcheting
Reversible

Type	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
Non-Ratcheting	4X813	\$4.89	\$3.42	\$3.18	3 oz.
Ratcheting	4X957	7.94	5.56	5.16	7 oz.

SEE WARRANTY INFORMATION ON PAGE 684

ALL-PURPOSE RIVETING TOOLS & RIVETS

Joins Metal, Wood, Masonite, Fabric, Plastic, Leather, Etc. up to 5/8" Total Thickness



\$16.07
Lots 4

TRADESMAN DELUXE

(Right) **TRADESMAN**—A handy pocket-size riveting tool for body repairmen, auto mechanics, industrial maintenance shops, etc. Two interchangeable nosepieces set 3/32, 1/8, 5/32 and 3/16" rivets in sheet metal, plastic, Masonite, etc. Has precision die-cast body with hardened carbon steel handle. Short span handle has comfortable grip. Spring mechanism holds rivet in nosepiece until fastened to work. Plated to resist rust. Shpg. wt. 1 lb.

No. 5X719. Tradesman Riveter. Retail \$13.95. Each \$10.46; lots 4.....**\$9.77**



(Left) **TRADESMAN DELUXE**—For daily use in riveting metal, wood, Masonite, Formica, etc. Handles work up to 5/8" total thickness. Three interchangeable nosepieces accommodate 1/8, 5/32 and 3/16" dia. rivets. Sets rivets from one side of work, permits riveting in blind spots on ductwork, metal supports, pipes, built-in light fixtures, etc. Die-cast aluminum and forged alloy construction. Has rubber composition handle grips for extra-firm, no-slip control. Shpg. wt. 4 lbs.

No. 4X577. Tradesman Deluxe Riveter. Retail \$22.95. Each \$17.21; lots 4, \$16.07

\$9.77
Lots 4



TRADESMAN

(Left) **WORKSHOP**—A low cost tool for intermittent use in riveting commonly encountered work up to 5/8" total thickness. Uses 1/8 to 3/16" diameter rivets in table listed below to join sheet metal, wood, Masonite, plastic, leather, canvas, and other commonly riveted materials.

Sets rivets from one side of work—fastens ductwork, pipe, built-in light fixtures, etc. Compact design for riveting in tight spots. Kit includes riveting tool, supply of various size rivets and vinyl carrying pouch. Shpg. wt. 1 lb.

No. 4X576. Workshop Riveting Kit. Retail \$7.38. Each \$5.54; lots 6.....**\$5.17**



WORKSHOP

\$5.17
Lots 6

KIT INCLUDES
Workshop Riveter
Supply of Rivets
Carrying Pouch

DAYTON STEEL & ALUMINUM RIVETS—Quantity Prices on Request

Type	Rivet Diameter	Material Thickness	Stock No.	Retail	—Boxes of 500 Rivets—		Shpg. Wt.
					Each	Lots 4	
1/8, 5/32 & 3/16" DIA. PLATED STEEL GRIP-TITE RIVETS							
Short	1/8"	To 1/8"	4X578	\$5.86	\$4.27	\$3.94	1
W/F Short†	1/8"	To 1/8"	4X579	7.31	5.33	4.92	1 1/4
Medium	1/8"	1/8 to 1/4"	4X580	6.80	4.96	4.58	1
Long	1/8"	1/4 to 3/8"	4X638	8.29	6.04	5.58	1
Short	5/32"	To 1/8"	5X515	9.49	6.92	6.38	3
Medium	5/32"	1/8 to 1/4"	5X516	10.03	7.31	6.75	3 1/4
Long	5/32"	1/4 to 1/2"	5X517	12.51	9.13	8.42	3 1/2
Short	3/16"	To 1/8"	5X518	11.60	8.46	7.81	4
Medium	3/16"	1/8 to 1/4"	4X639	12.57	9.17	8.46	5
Long	3/16"	1/4 to 3/8"	4X640	13.63	9.94	9.17	5
Extra Long	3/16"	3/8 to 5/8"	5X519	17.80	12.98	11.98	5 1/2
1/8 & 3/16" DIA. ALUMINUM GRIP-TITE RIVETS							
Short	1/8"	To 1/8"	4X641	\$6.60	\$4.81	\$4.44	8 oz.
Medium	1/8"	1/8 to 1/4"	5X520	7.74	5.65	5.21	13 oz.
Long	1/8"	1/4 to 3/8"	5X521	10.23	7.46	6.88	1
Short	3/16"	To 1/8"	4X581	13.06	9.52	8.79	1 1/4
Medium	3/16"	1/8 to 1/4"	4X642	13.89	10.13	9.35	1
Long	3/16"	1/4 to 3/8"	4X582	15.86	11.56	10.67	2
Extra Long	3/16"	3/8 to 5/8"	5X522	19.34	14.10	13.02	2 1/2
1/8" DIA. ALL STAINLESS STEEL GRIP-TITE RIVETS							
Short	1/8"	To 1/8"	5X523	\$17.97	\$13.10	\$12.10	2
Medium	1/8"	1/8 to 1/4"	5X524	20.37	14.85	13.71	2

(†) Wide flange short type.

REPLACEMENT JAW KIT FOR PROFESSIONAL & MEDIUM DUTY RIVETERS



Fits riveters 4X577 and 5X719 only. Matched jaw set is made of hardened steel for long

life. Shpg. wt. 1 oz.

No. 1R221. Retail \$3.95. Each.....**\$2.49**

Powder Actuated. For Fastening Wood & Steel to Concrete. 7-Piece Kit in Metal Carrying Case

Dayton

- High
- Multi
- Safe

**Complete Kit,
Less Studs and
Powder Loads**

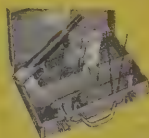


- Hinged, fast-load barrel
- Muzzle guard assures straight driving of pins
- Safe, one hand operation

Long life, fast loading powder-actuated fasteners—just insert fastener and powder load, depress tool against work surface to cock, pull trigger and fastener is set. High velocity model has adjustable muzzle guard; low velocity unit has $\frac{3}{16}$ " dia. nozzle for fastening in narrow channels and tight spots encountered by electricians. UL listed. Meet OSHA powder tool standards. Kits contain stud driver, goggles, two wrenches, cleaning brush, solvent, ram rod, instr. manual and metal case. Order drive pins and powder loads separately.




**Complete Kit,
Less Studs and
Powder Loads.**



- Spent cartridge ejection
- Small diameter muzzle gets in confined area
- Safe, one hand operation

CAUTION: Use high velocity pins/loads with No. 4XZ22 & other high velocity stud drivers only. Use low velocity pins/loads with No. 5X940 & other low velocity stud drivers only.

HIGH VELOCITY DRIVE PINS (1/4" Dia. Head, 5/32" Dia. Shank)



HIGH VELOCITY THREADED STUDS (1/4"-20 thread, 5/32" Dia. Shank)

HIGH VELOCITY .22 CAL. POWDER LOAD

HIGH VELOCITY .22 CAL. POWDER LOADS (By Penetrating Power)

LOW VELOCITY DRIVE PINS (5/16" Dia. Head, 9/16" Dia. Shank)

LOW VELOCITY .22 CAL. POWDER LOADS (By Penetrating Power)

HOW TO SELECT PROPER LENGTH FASTENER. To material thickness add minimum of $\frac{3}{8}$ " if fastening to steel base; $1"$ if hard concrete; $1\frac{1}{4}"$ if average concrete; $1\frac{3}{4}"$ to $1\frac{7}{8}"$ if concrete block.

HOW TO SELECT POWDER LOADS. Choose lightest load for proper penetration: (A) For concrete block, new concrete and light metal less than $\frac{3}{16}"$ thick. (B) For average concrete, concrete block and $\frac{3}{16}"$ thick steel. (C) For hard concrete and $\frac{1}{4}"$ thick and heavier steel. (D) For extra hard concrete and $\frac{5}{16}"$ thick and heavier steel.

HEAVY DUTY ALLOY STEEL SCREWDRIVERS



No. 6X337 Professional quality screwdrivers for handling practically any screw turning operation. Alloy steel blades are heat treated their entire length. Tips are precision ground and tapered to prevent

rising out of screw slots. Plastic handles are injection molded to the blade and deep fluted for gripping power. Sets contain most widely used screwdrivers for automotive and electrical work, and come in vinyl pouch. Proto brand.

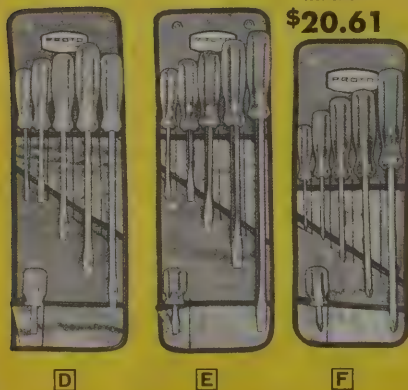
\$2.30

INDIVIDUAL SCREWDRIVERS

Fig.	Shank Size and Shape	Blade Length	Standard Tip Width	Overall Length	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
A	1/8" Rd.*	4"	1/8"***	7 1/2"	9632	6X337	\$2.55	\$2.30	2 oz.
A	1/4" Rd.*	4	1/4"	8	9604	6X334	3.05	2.75	3 oz.
A	1/2" Rd.*	6	1/2"	10 1/2"	9606	6X335	3.90	3.51	5 oz.
A	3/8" Rd.*	10	3/8"	14 1/2"	9643	6X338	5.70	5.13	5 oz.
A	1/2" Rd.*	8	1/2"	13	9608	6X336	5.15	4.64	8 oz.
B	1/4" Sq.	1 1/2	1/4"	3 1/2	9652	6X339	2.55	2.30	2 oz.
B	1/2" Sq.	4	1/2"	7 1/2	9832	6X350	2.90	2.61	2 oz.
B	3/8" Sq.*	4	3/8"	8	9804	6X346	2.75	2.48	5 oz.
B	1/2" Sq.*	6	1/2"	10 1/2	9806	6X347	4.00	3.60	5 oz.
B	3/8" Sq.*	8	3/8"	13	9808	6X348	5.60	5.04	8 oz.
B	1/2" Sq.*	12	1/2"	17	9812	6X349	7.80	7.02	11 oz.
C	1/8" Rd.	2 1/2	No. 0 Pt.	5 1/4	9680	6X341	2.85	2.57	3 oz.
C	1/4" Rd.*	3	No. 1 Pt.	6 3/8	9682	6X342	3.47	3.12	2 oz.
C	1/2" Rd.	1 1/2	No. 2 Pt.	3 1/4	9671	6X340	2.70	2.43	2 oz.
C	3/8" Rd.*	4 1/4	No. 2 Pt.	8 1/4	9684	6X343	3.70	3.33	3 oz.
C	1/2" Rd.*	6	No. 3 Pt.	10 1/2	9686	6X344	4.90	4.41	5 oz.
C	3/8" Rd.*	8	No. 4 Pt.	13	9688	6X345	6.15	5.54	8 oz.

(*) Meet Federal Spec. GGG-S-121d. (**) Cabinet tip—same width as shank.

6-PIECE SCREWDRIVER SETS



No. 6X332

\$20.61

SCREWDRIVERS IN SETS

Shank Size	Blade Length	Standard Tip Width	Overall Length	Stock No.
FIG. D. ROUND SHANK—STANDARD TIP				
1/8"***	4"	1/8"***	7 1/2"	6X337
1/4" (Sq.)	1 1/2	1/4"	3 1/2	6X339
1/2"	4	1/2"	8	6X334
3/8"	6	3/8"	10 1/2	6X335
1/2"	10	1/2"	14 1/2	6X338
3/4"	8	3/4"	13	6X336

FIG. E. SQUARE SHANK—STANDARD TIP				
1/8"	1 1/2	1/8"	3 1/2	6X339
1/4"	4	1/4"	7 1/2	6X350
1/2"	4	1/2"	8	6X346
3/8"	6	3/8"	10 1/2	6X347
1/2"	8	1/2"	13	6X348
3/4"	12	3/4"	17	6X349

FIG. F. ROUND SHANK—PHILLIPS TIP				
1/8"	2 1/2	No. 0 Pt.	5 1/4	6X341
1/4"	3	No. 1 Pt.	6 3/8	6X342
1/2"	1 1/2	No. 2 Pt.	3 1/4	6X340
3/8"	4 1/4	No. 2 Pt.	8 1/4	6X343
1/2"	6	No. 3 Pt.	10 1/2	6X344
3/4"	8	No. 4 Pt.	13	6X345

(*) Meet Federal Spec. GGG-S-121d.
(**) Cabinet tip—same width as shank.

Fig.	Set Description	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
D	6-Pc. Round Shank—Standard Tip	9600B	6X332	\$22.90	\$20.61	2
E	6-Pc. Square Shank—Standard Tip	9800A	6X333	25.60	23.04	2 1/2
F	6-Pc. Round Shank—Phillips Tip	9600A	6X331	23.77	21.39	1 1/2

TRADESMEN and INDUSTRIAL USE



ADJUSTABLE-END WRENCHES

In 6 to 15" Lengths. Jaw Capacities: $\frac{3}{8}$ " to $1\frac{1}{16}$ "



No. 6X314, 6" L Precision-made from hot forged alloy steel for long service life. Jaw is designed to fit securely on both square and hex nuts. Thin head gets into tight work areas. Rugged I-beam handle with reinforcement at critical stress areas for maximum strength. Chrome finish with polished head. Meet Federal spec. GGG-W-63 1b, Type 1. Proto brand.

Length	Max. Jaw Opening	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
6"	$\frac{3}{8}$ "	706	6X314	\$5.63	\$5.07	4 oz.
8	$\frac{1}{2}$ "	708	6X315	6.38	5.74	8 oz.
10	$1\frac{1}{8}$ "	710	6X316	8.02	7.22	13 oz.
12	$1\frac{1}{4}$ "	712	6X317	11.56	10.40	1 $\frac{1}{2}$ "
15	$1\frac{11}{16}$ "	715	6X318	17.54	15.79	3 $\frac{3}{4}$ "

HEAVY DUTY PIPE WRENCHES

Up to 18" Lengths. Pipe Capacities: 1 to 2 $\frac{1}{2}$ "



No. 6X351, 8" L
\$7.80

Designed and engineered for strength, light weight and good balance. Rugged forged steel hook jaw and alloy steel lower jaw feature heat treated, precision milled teeth for a firm bite and long wear. Pipe sizes stamped on hook jaw. Sturdy I-beam handle. Meet Federal spec. GGG-W-00651d, Type II, Class A. Proto brand.

Length	Maximum Pipe Size	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
8"	1"	808HD	6X351	\$8.67	\$7.80	8 oz.
10	$1\frac{1}{8}$ "	810HD	6X352	11.33	10.20	2
12	$1\frac{1}{4}$ "	812HD	6X353	13.33	12.00	3
14	2	814HD	6X354	15.44	13.90	4
18	2 $\frac{1}{2}$ "	818HD	6X355	21.89	19.70	6

TORQUE WRENCH

Micro-Adjusting. Ratcheting. Reversible Head $\frac{1}{2}$ " Sq. Drive. 10 to 150 Ft.-Lbs. Torque Range



\$67.50 Fast, accurate and easy to use. No projecting dials, scales or pointers to get in the way. Simply set desired torque on the micrometer-type vernier scale, set lock to hold exact torque setting, apply wrench to work and pull up to the required torque. Torque mechanism signals when torque setting is reached. Release handle pressure and wrench resets automatically to the same torque setting. All-steel construction with enclosed working parts. Torque selector is graduated in 1 ft.-lbs. Knurled handle. Overall length 18 $\frac{1}{4}$ ". Proto brand (6016). Wt. 2 $\frac{1}{2}$ lbs. No. 6X313. Retail \$75.00. Each.....\$67.50

ALLOY STEEL COLD CHISELS

Heat Treated for Extra-Hard Cutting Edge



\$1.84 No. 6X321
5/16" Wide Cut

Cut any cold metal softer than the chisel itself — for example, cast iron, carbon steel, brass, copper, aluminum, bolts, nuts and rivets. Hot formed from alloy steel and heat treated to obtain the right combination of hardness and toughness. Meet Federal spec. GGG-C-313. Proto brand. Shpg. wt. 2 oz. to 2 lbs.

INDIVIDUAL COLD CHISELS

Width of Cut	Hex Size	Overall Length	Mfrs. Model	Stock No.	Retail	Each
5/16"	$\frac{1}{4}$ "	5 $\frac{1}{2}$ "	86A $\frac{1}{4}$	6X321	\$2.04	\$1.84
3/8	$\frac{3}{8}$ "	5 $\frac{3}{8}$ "	86A $\frac{3}{8}$	6X322	2.24	2.02
7/16	$\frac{7}{16}$ "	5 $\frac{1}{2}$ "	86A $\frac{7}{16}$	6X323	2.45	2.21
1/2	$\frac{1}{2}$ "	6	86A $\frac{1}{2}$	6X324	2.60	2.34
5/8	$\frac{5}{8}$ "	6 $\frac{1}{2}$ "	86A $\frac{5}{8}$	6X325	3.07	2.76
3/4	$\frac{3}{4}$ "	7	86A $\frac{3}{4}$	6X326	3.71	3.34
7/8	$\frac{7}{8}$ "	8	86A $\frac{7}{8}$ x8	6X327	5.50	4.95
1	1	12	86A $\frac{1}{2}$ x12	6X328	7.69	6.92
1	1 $\frac{1}{8}$ "	8 $\frac{1}{4}$ "	86A $\frac{1}{2}$ x8	6X329	5.50	4.95
1	1 $\frac{1}{2}$ "	12	86A $\frac{1}{2}$ x12	6X330	9.50	8.55

7-PIECE COLD CHISEL SET



Seven cold chisels in a full range of cutting widths: $\frac{1}{16}$ ", $\frac{3}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " ($\frac{7}{8}$ " x 8" long). Vinyl roll-up pouch included. Meets Federal spec. GGG-C-313. Proto brand (86B). Shpg. wt. 3 lbs.

No. 6X320. Retail \$21.61. Each.....\$19.45

5-PC. SCREW EXTRACTOR SET

Removes Broken Screws, Studs, Bolts, Fittings



Tapered flutes prevent wedging and binding. Sharp edges bite into work to take hold. For both right and left hand threads. Hardened alloy steel. In vinyl pouch. Meets Federal spec. GGG-E-936c, Type 1, Class 2. Proto brand (9500A). Shpg. wt. 7 oz.

No. 6X319. Retail \$13.70. Each.....\$12.33

EXTRACTORS IN ABOVE SET

Size of Small End	Size of Shank	Overall Length	Drill Size	Min. Depth of Hole	USS Screw, Stud or Bolt Size	Pipe Size
$\frac{1}{16}$ "	$\frac{3}{16}$ "	2 $\frac{5}{16}$ "	$\frac{1}{8}$ "	$\frac{3}{8}$ "	$\frac{1}{4}$ ", $\frac{5}{16}$ "	$\frac{1}{8}$ "
$\frac{1}{8}$ "	$\frac{1}{4}$ "	2 $\frac{9}{16}$ "	$\frac{3}{16}$ "	$\frac{1}{2}$ "	$\frac{3}{8}$ ", $\frac{7}{16}$ "	$\frac{1}{4}$ "
$\frac{3}{16}$ "	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	$\frac{1}{4}$ "	$\frac{5}{8}$ "	$\frac{1}{2}$ ", $\frac{9}{16}$ "	$\frac{3}{8}$ "
$\frac{1}{2}$ "	$\frac{3}{4}$ "	3	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "	$\frac{3}{4}$ ", $\frac{1}{2}$ "	1 $\frac{1}{4}$ "
$\frac{3}{4}$ "	1	3 $\frac{1}{4}$ "	$\frac{1}{2}$ "	2	1", $\frac{3}{4}$ "	1 $\frac{3}{4}$ "

(*) For broken grease fitting.

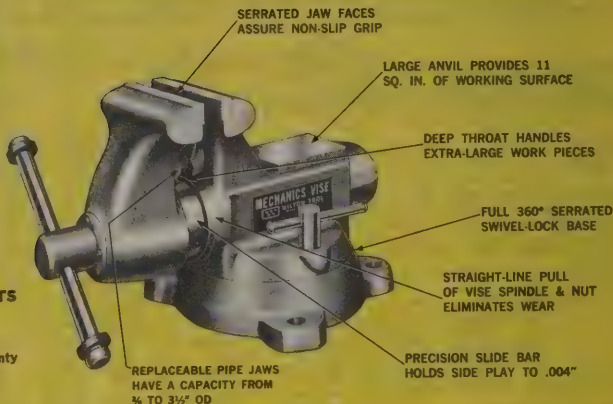
WILTON 3½ TO 5" BENCH VISES . . .



\$82.41

**2 YEAR PARTS
LIMITED
WARRANTY**

See Limited Warranty
Policy in Index

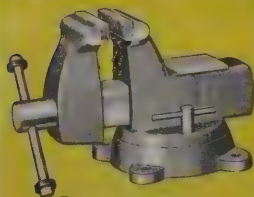


5" HEAVY-DUTY MECHANICS VISE

This top-of-the-line vise for automotive shops, industrial maintenance shops, etc. has all of the important construction features shown above. Built with exceptional strength and precision for rugged day-in, day-out use. Precision-fitted cylindrical slide is completely enclosed and permanently lubricated for years of smooth, accurate operation with no maintenance required. Unit has full 5" hardened steel jaws, 5" maxi-

mum opening and 3¾" throat depth. Pipe capacity: ¾ through 3½" OD. Also features a malleable alloy body with large, ground anvil—plus replaceable steel pipe jaws. Base swivels 360° has two lock nuts for positive lock-down. 8¾" W x 8¾" H x 14½" L. Two-year parts limited warranty. See Limited Warranty Policy in Index. Wilton brand (1750). Shpg. wt. 49 lbs.

No. 2Z193. Retail \$109.88. Each.....\$82.41



**2 YEAR PARTS
LIMITED WARRANTY**

See Limited Warranty Policy in Index

4 & 5" MECHANICS VISES

4" Jaws
\$47.30

These quality-built vises have strength and durability to withstand many years of extra-heavy duty service with normal care. Units come with metal jaws and pipe jaws to handle a wide range of jobs. Straight line pull transmits clamping load over entire husky vise body. Both models are built with convenient 360° swivel base with serrated locking faces, hardened steel jaws, pipe jaws and extra-deep throats to handle large work pieces. Two-year parts limited warranty. See Limited Warranty Policy in Index.

Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Stock* No.	Retail	Each	Shpg. Wt.
4"	4½"	3⅞"	¼-2"	2Z474	\$63.07	\$47.30	33
5	5½"	3¾"	¼-2½"	2Z346	87.14	65.36	44

(*) Wilton Models 744 and 745 respectively.

3½ & 5" MEDIUM-DUTY VISES

Designed for light industrial and home workshop use. Both units are built to high standards, amply proportioned and engineered for many years of rugged service. Feature a ⅞" formed steel slide; replaceable serrated steel top jaws; built-in pipe jaws; a large ground anvil; and 220° swivel base with positive lock. No. 2Z042 3½" vise also has a forming horn.

3½" Jaws
\$30.90

Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Stock* No.	Retail	Each	Shpg. Wt.
3½"	4"	3"	¼-2"	2Z042	\$41.20	\$30.90	17
5	5½"	3¾"	¼-2½"	2Z473	75.90	56.93	45

(*) Wilton Models 643½ and 645 respectively.



No. 2Z042

5 DESIGNS FOR EVERY HOLDING NEED

5 YEAR PARTS LIMITED WARRANTY

See Limited Warranty Policy in Index

SEALED CONSTRUCTION. ALL MOVING PARTS ARE SEALED TO KEEP GREASE IN, CONTAMINANTS OUT

MASSIVE ANVIL FOR LARGE WORKING AREA

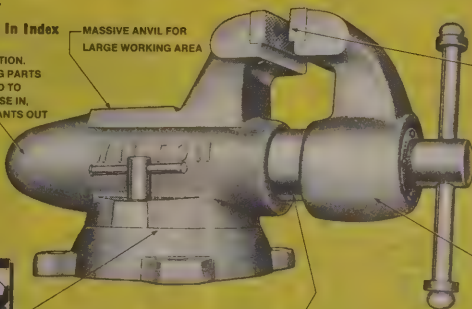
LARGE JAW INSERTS FOR MORE CLAMPING SURFACE

3 1/2" JAWS
\$99.48

4" JAWS
\$118.07



SERRATED SWIVEL LOCK. DUAL LOCKDOWN ASSURES NON-SLIP GRIP THRU 360° SWIVEL



PRECISION SLIDE BAR IN BROACHED KEYWAY OF CYLINDRICAL HOUSING ELIMINATES SIDE PLAY



LIFETIME SPINDLE & NUT. STRAIGHT-LINE PULL BEARS ON FULL VISE BODY, ELIMINATES WEAR

3 1/2" & 4" HEAVY-DUTY MACHINISTS VISES

Rugged vises built to high standards of accuracy and dependability (see features above) for years of trouble-free use on production lines, in maintenance or tool room applications, etc. Lifetime spindle and nut transmit straightline pull over entire high strength ductile alloy body. Sealed

construction locks in lifetime supply of lubricant, and deep throat provides up to 35% more workholding capacity than similar competitive makes. Base swivels 360°, locks in any position for handling long, awkward work pieces. Five-year parts limited warranty.

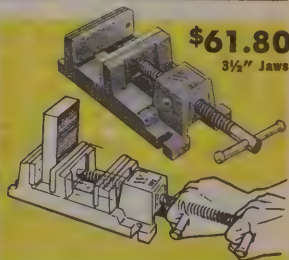
Jaw Width	Max. Opening	Throat Depth	Wilton Model	Stock No.	Retail	Each	Shpg. Wt.
3 1/2"	5 1/4"	2 3/4"	350S	22475	\$153.05	\$99.48	40
4"	6 3/4"	3 3/4"	400S	12804	181.65	118.07	61

3 1/2" & 4 1/2" DRILL PRESS VISES

Designed To Save Time, Built To Give Years Of Service

These heavy-duty vises have 30% more mass than most drill press vises for exceptional strength and durability to handle the tough jobs. Vise sides are precision-machined square with base for drilling with vise on its side or in upright position without removing work. Equipped with a rapid action nut which engages for sliding jaw to different open or closed position—engages to grip work securely for fast, safe stock removal.

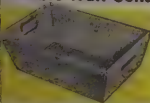
Jaw Width	Max. Jaw Opening	Jaw Depth	Wilton Model	Stock No.	Retail	Each	Shpg. Wt.
3 1/2"	4 3/4"	1 3/4"	1135	22494	\$82.40	\$61.80	10
4 1/2"	4 3/4"	1 3/8"	1145	22495	102.55	76.91	16



\$61.80
3 1/2" Jaws

COATED TOTE BOXES

Double-Wall Construction. Coated Both Sides



\$13.58 Bundles of 10 Lots 5

For order filling, parts sorting, etc. 12 x 18" at top, 6 1/2" deep. Capacity over 100 lbs. Self-locking over 200 lb. test corrugated board. Resist oil, grease, water, etc. In bundles of 10. Weight per bundle, 12 lbs.

1W818. Coated Tote Boxes. Retail \$31.00. Each bundle \$15.51; lots 5 bundles.....\$13.58

3/4" & 1 1/2" W MASKING TAPE



Industrial tape of natural color with 35 oz. adhesion per inch of width, and 20 lbs. tensile strength per square inch. Peels off clean for masking. Meets Federal Spec. UU-T-106D, Type 1. American brand.

Tape Width	Stock No.	Retail	Each	Lots 6	Lots 12	Shpg. Wt.
3/4"	4X225	\$1.12	\$0.78	—	\$0.70	6 oz.
1 1/2"	4X958	1.08	1.49	\$1.39	—	11 oz.

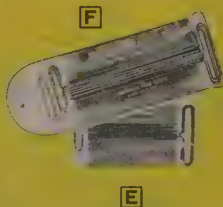
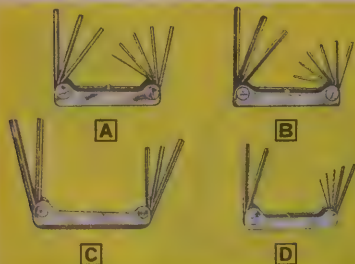
(*) Tape length: 60 yards (both sizes).

SEE WARRANTY INFORMATION ON PAGE 684



FOLD-UP and T-HANDLE HEX KEY SETS

Made of Top Quality Chrome-Nickel Alloy Steel. Drawn to Close Tolerances for Precise Fit



Professional quality hex keys made of chrome nickel alloy steel, drawn to close tolerances with sharp hex corners to insure precise fit into hex socket—then hardened and tempered for maximum strength and durability. Available in four fold-up pocket size sets and four T-handle sets in the most popular sizes. Sizes are clearly stamped on case or loop handle.

A 8-Pc. Fold-Up Set, No. 6X301. Includes hex key sizes .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64 and 5/32". Key lengths range from 1 1/16 through 2 3/8". Case/handle length 3".

B 9-Pc. Fold-Up Set, No. 6X302. Hex keys in 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4" sizes. Key lengths from 1 1/16 through 3 1/2". Case/handle length 4 1/2".

C 5-Pc. Fold-Up Set, No. 6X303. Hex key sizes: 3/16, 7/32, 1/4, 5/16 and 3/8". Extra long key lengths from 3 1/8 through 4 5/8". Case/handle length 4 1/4".

D 7-Pc. Metric Fold-Up Set, No. 6X304. Includes metric size hex keys in 1.5, 2, 2.5, 3, 4, 5 and 6

millimeters. Key lengths from 1 1/16 through 2 1/16". Case/handle length 3 3/8".

E 8-Pc. T-Handle Service Kit, No. 6X305. Includes hex keys in 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4" sizes. Key length 6", all sizes. Loop handle measures 3", except 3/16" and larger sizes are 4". In vinyl pouch.

F 8-Pc. T-Handle Service Kit, 6X306. Same as E but with 9" key length instead of 6".

G 10-Pc. T-Handle Set, No. 6X307. Contains hex keys in 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes. Key length 6", all sizes. Loop handle measures 3" on 5/32" and smaller sizes 4" on 3/16 through 1/4" sizes; and 6" on 5/16" and larger sizes. Order T-handle stand separately.

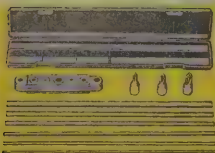
H 10-Pc. T-Handle Set, No. 6X308. Same as G but with 9" key length instead of 6".

J T-Handle Stand, No. 6X309. A convenient metal workbench stand with inch sizes clearly marked. Also features chart for selecting hex keys to fit set screws and cap screw sizes.

Key	Set Description	Hex Key Size Range	Hex Key Length	Handle Length	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Lots 6	Shpg Wt.
A	8-Pc. Fold-Up	.050-5/32"	1 1/16-2 3/8"	3"	81	6X301	\$2.10	\$1.57	—	\$1.47	3 oz
B	9-Pc. Fold-Up	5/64-1/4"	1 1/16-3 1/2"	4 1/2"	91	6X302	3.10	2.32	—	2.17	8 oz.
C	5-Pc. Fold-Up	3/16-3/8"	3 1/8-4 5/8"	5 1/4"	51	6X303	4.40	3.30	—	3.08	15 oz.
D	7-Pc. Fold-Up	1.5-6mm	1 1/16-2 1/4"	3 3/8"	M17	6X304	2.90	2.17	—	2.03	5 oz
E	8-Pc. T-Handle	3/16-1/4"	6	3 & 4	1600-8KP	6X305	9.00	6.75	\$6.30	—	11 oz.
F	8-Pc. T-Handle	3/16-1/4"	9	3 & 4	1900-8KP	6X306	10.65	7.99	7.45	—	13 oz.
G	10-Pc. T-Handle	3/16-3/8"	6	3, 4 & 6	1600	6X307	14.28	10.71	9.99	—	2
H	10-Pc. T-Handle	3/16-3/8"	9	3, 4 & 6	1900	6X308	17.00	12.75	11.90	—	2
J	T-Handle Stand	—	—	—	369	6X309	3.50	2.62	—	—	11 oz.

10-PC. 9" HEX WRENCH KIT

\$5.20 Lots 3



Perfect for reaching in to fan and blower hubs. Kit includes 3/32, 1/8, 5/32, 3/16, 7/16 and 1/4" magnetized hex wrenches 9" long; Nos. 1, 2, & 3

Phillips-type hardened steel screwdriver heads; master handle designed to slide to any position on wrench; and hinged box. Watsco brand (P13). Shpg. wt. 8 oz.

No. 4X217. Retail \$7.07. Each \$5.60; lots 3....\$5.20

Modified Motors Available to OEM

Modified versions of stock motors are available to quantity users on special order, with deliveries scheduled to meet production needs. Your Grainger salesman can advise availability and quote prices on your special motor needs.

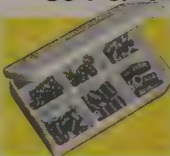
18 PC. HEX WRENCH SET



Hex socket type—Includes 9" wrenches .05 thru 1/4", 1 1/4 to 3 1/4 long; and 9 long wrenches 1/16 thru 3/4, 3/4 to 7" long. Sturdy steel, zinc chromate plated. Plastic case. Dayton brand. Shpg. wt. 1 lb

No. 2X772. Retail \$2.25 Each \$1.59; lots 3, \$1.4

80-PC. SET SCREW SET



Handy assortment of 8 socket type (hollow-head) set screws with cup point. Six sizes — 1/4", 20, 3/16", 11 3/16", 16, 3/8", 20, 1/2", 18 and 1 1/2" thread. In plastic box. Dayton brand. Shpg. wt. 10 oz.

No. 2X643. Retail \$6.10 Each \$4.93; lots 12....\$4.1

ACTION BRAND ALL-PURPOSE TOOL SETS

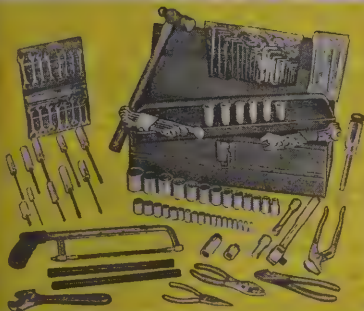
Top Quality Tools for the Shop, Handyman, Farm, Trade School, Hobbyist, Etc.

55-PIECE TOOL SET



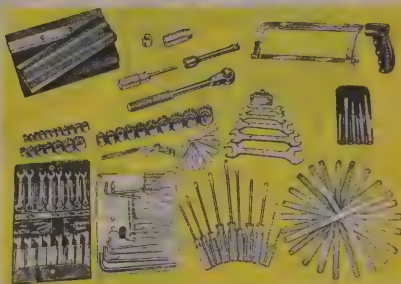
\$25.84 Set comes with eighteen 1/4 and 3/8" drive regular sockets in sizes ranging from 3/8 to 7/8"—plus three 3/8" drive deep sockets (7/16, 1/2 and 9/16") and one 13/16" spark plug socket (3/8" drive). Also included for use with sockets: 1/4" drive spinner handle; 3/8" drive reversible ratchet; 3/8 (F) to 1/4" (M) adapter; and 5" extension (3/8" drive). Other tools in set include 8-pc. Allen wrench set; 6" slip joint plier; No. 1 Phillips screwdriver; cabinet screwdriver; 5-pc. open end wrench set; and molded box with tool tray. Action brand (5055AL). Shpg. wt. 6 lbs.
No. 5X677. 55-Pc. Tool Set. Retail \$43.06. Each \$27.99; lots 3.....**\$25.84**

138-PIECE TOOL SET



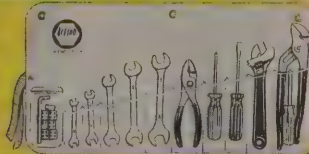
\$83.08 Set includes a total of thirty-one 1/4, 3/8 and 1/2" drive regular sockets in sizes ranging from 3/16 thru 1 1/4"—plus 1/2" drive 5-pc. deep socket set in 1/2 thru 3/4" sizes; and two spark plug sockets, one 5/8" and the other 3/16". Attachments for sockets include a 1/4" drive spinner handle, 1/2" drive reversible ratchet, 1/2" (F) to 3/8" (M) adapter, and 2 1/2" and 5" extensions (1/2" drive). Other tools in set include two 6-pc. clip wrench sets—one with open end wrenches and the other with combination wrenches; 19-pc. ignition wrench set; 10-pc. screwdriver set; 18-pc. hex key set; 4-pc. punch and chisel set; hacksaw frame and blade with 4 extra blades; 7" diagonal plier; 6" slip joint plier; 8" adjustable wrench; 10" groove joint plier; 6" chain nose plier; 12 oz. ball pein hammer; tool box. Action brand (50141AL). Wt. 24lbs.
No. 5X678. 138-Pc. Tool Set. Retail \$138.46. Each \$90.00; lots 3.....**\$83.08**

105-PIECE TOOL SET



\$48.13 Set includes: 28 sockets (3/16 to 1") with 1/4, 3/8 and 1/2" drives; 1/4" drive spinner; adapter, 3/8" (M) to 1/2" (F); 13/16" deep socket, 1/2" drive; 5" extension, 1/2" drive; 10" reversible ratchet, 1/2" drive; 5-pc. open-end wrench set; 5-pc. punch and chisel set; 18-pc. hex key wrench set; 19-pc. ignition wrench set; 10-pc. screwdriver set; hacksaw frame with 13 blades; and metal box. Action brand (2107). Wt. 16 lbs.
No. 2X880. 105-Pc. Tool Set. Retail \$80.21. Each \$52.14; lots 3.....**\$48.13**

21-PIECE TOOL KIT



\$13.24 Set includes: 5 open end wrenches (1/4" to 7/8"), 6" slip-joint plier, 10" adjustable plier, 7 1/2" mechanics and 6 1/2" Phillips screwdrivers, 8" adjustable wrench, 9-pc. socket set (1/4 to 7/16"), 1/4" hex-drive spinner. In plastic tool pouch. Action brand (6180). Shpg. wt. 3 1/2 lbs.
No. 2X874. 21-Pc. Tool Kit. Retail \$22.06. Each \$14.34; lots 3.....**\$13.24**

12-PC. METRIC TOOL KIT



\$13.71 Set includes: four combination wrenches (8 & 9, 10 & 11, 14 & 15, 16 & 17mm); 8" adjustable wrench; 10" groove joint plier; spark plug socket with handle (14 & 18mm); spark plug gap gauge and cleaning tool; regular and Phillips screwdrivers. In vinyl roll. Action brand (5011SMA). Shpg. wt. 3 lbs.
No. 5X676. 12-Pc. Metric Tool Kit. Retail \$22.85. Each \$14.85; lots 3.....**\$13.71**

1/4" & 3/8" TRADESMAN ELECTRIC DRILLS

1/4 HP, 2.7 Amp Motor Delivers the Torque Needed for Efficient and Reliable Performance



TRADESMAN DELUXE
\$39.06 **\$50.96**
 1/4" Single Speed 3/8" Single Speed

SHOCK ☐ GUARD
 DOUBLE-INSULATED

\$59.46
 3/8" Driver Drill*

Dayton



TRADESMAN
\$25.12 **\$27.44**
 1/4" Single Speed 3/8" Single Speed

SHOCK ☐ GUARD
 DOUBLE-INSULATED

\$41.65
 3/8" Driver Drill*

TRADESMAN DELUXE—Built for tradesmen, installers and others who work with different types of materials under varying conditions every day. All models feature roller bearing spindles and armatures for smooth, reliable operation. Heavy-duty, precision-gear chucks. High-velocity cooling systems. Shatterproof, non-conductive handles and housings. High-temperature protected AC/DC, 25/60 Hz, 115V motors. One model, the Driver Drill, combines variable speed with reverse drive for drilling up to 3/8" in steel or driving and removing fasteners. Other models listed have single or variable forward speed. Double insulation protects operator

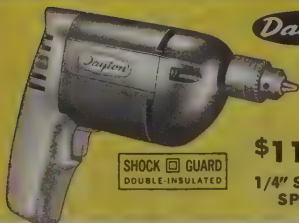
from electric shock. Ten foot heavy-duty cord has a convenient two-prong plug. Lightweight design. Overall length 8 1/2". UL and CSA listed. Net wt. 3 lbs.

TRADESMAN—An exceptional buy for tradesmen, maintenance men and others who need a drill for daily intermittent use. Has ball bearing spindles, needle and sleeve bearing armatures, precision-gear chucks, and tough, high-metal handles and housings. Powerful, high-temp. protected AC/DC, 25/60 Hz, 115V motors. Double-insulated with 6 ft. two-prong cord set. Overall length 8 1/2". UL and CSA listed. Net wt. 2 3/4 lbs.

	Chuck Size & Drill Type	No-Load RPM	Amps. at 115V	Delivered HP	Switch	Bit Cap. in Steel	Stock No.	Retail	Each
Tradesman Deluxe	1/4" Single Speed	2200	2.7	1/4	AC/DC	1/4"	22389	\$45.95	\$39.06
	3/8" Single Speed	1000	2.7	1/4	AC/DC	3/8	22391	59.95	50.96
	3/8" Driver-Drill*	0-1000	2.7	1/4	AC	3/8	22392	69.95	59.46
Tradesman	1/4" Single Speed	2250	2.7	1/4	AC/DC	1/4"	22588	29.56	25.12
	3/8" Single Speed	1000	2.7	1/4	AC/DC	3/8	22589	32.29	27.44
	3/8" Driver-Drill*	0-1000	2.7	1/4	AC	3/8	22590	49.00	41.65

(*) Variable forward and reverse speeds.

1/4" & 3/8" WORKSHOP ELECTRIC DRILLS



SHOCK ☐ GUARD
 DOUBLE-INSULATED

\$11.97
 1/4" SINGLE SPEED

Dayton

2.0 & 2.3 Amp. Motors Deliver Plenty of Power for Home and Light Repair Shop

Widely used for home repair and workshop projects. High velocity cooling systems for long motor life and shatterproof handles and housings are several of the many top value construction features found in these compact, moderately priced drills. All models listed are double insulated to protect operator against electric shock. Six ft. cord has a two-prong plug, requires no adapter. Choose from single or variable speed models. 2.0 or 2.3 amp., AC 25/60 Hz, 115V motor delivers 1/6 or 1/5 HP at the chuck and work. Overall length 8 1/2". UL and CSA listed. Net wt. 2 1/4 lbs.

	Chuck Size & Drill Type	No-Load RPM	Amps. at 115V	Delivered HP	Switch	Bit Cap. in Steel	Stock No.	Retail	Each
	1/4" Single Speed	2250	2.0	1/6	AC/DC	1/4"	22393	\$14.25	\$11.97
	3/8" Single Speed	1000	2.0	1/6	AC/DC	3/8	22395	18.49	15.53
	3/8" Variable Speed	0-1000	2.3	1/5	AC	3/8	22396	24.00	20.16

Get Deliver from Stock on over 95% of the Merchandise in this MotorBook
 Grainger Availability and Service Help You Sell More and Net More Profits

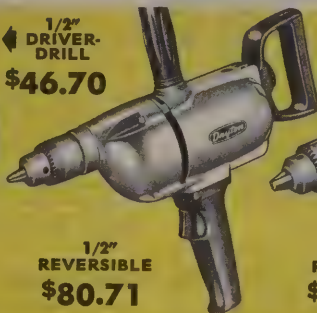
Dayton 1/2" & 3/4" TRADESMAN ELECTRIC DRILLS

1/2" Models Powered by 1/4 or 1/3 HP Motor; 3/4" Model by Extra-Big 1 1/4 HP Motor



1/2" DRIVER-DRILL
\$46.70

SHOCK ☐ GUARD
DOUBLE INSULATED



1/2" REVERSIBLE
\$80.71



3/4" REVERSIBLE
\$254.15

These powerful drills easily handle the tough installation jobs that require drilling in masonry, hardwood, and steel. High-temperature protected AC/DC, 26/60 Hz, 115V motors guard against burnout and deliver full HP to the chuck. Industrial-duty geared chucks. UL and CSA listed.

1/2" DRILLS—Standard models have aluminum-alloy housing and top-mounted handle. Compact Driver-Drill has shatterproof, non-conductive housing, double insulation and 2-position side handle. All models equipped with ball thrust spindle bearings and heavy-duty 6 ft. cord.

3/4" DRILL—Ball bearing spindle and armature for long life, smooth operation. Double-pole trigger switch provides instant contact for running. Heavy-duty 10 ft. cord with 3-prong plug.

Power-to-spare for fast drilling results in all materials

Chuck Size & Drill Type	No-Load RPM	Amps. at 115V	Delivered HP	Switch	Bit Cap. in Steel	Tool Lgth.	Net Wt.	Stock No.	Retail	Each	Shpg. Wt.
1/2" Driver-Drill*	0-500	3.0	1/4	AC	1 1/8"	10"	4	22780	\$54.95	\$46.70	4
1/2" Non-reverse	450	5.0	1/3	AC/DC	1 1/8"	14 3/8"	8	22398	84.95	72.21	8 3/4
1/2" Reversible	450	5.0	1/3	AC/DC	1 1/8"	14 3/8"	8	22399	94.95	80.71	8 3/4
3/4" Reversible	450	10.0	1 1/4	AC/DC	3/4"	17 3/4"	18	22402	299.00	254.15	21

* Variable forward and reverse speeds.

Dayton 1/2" WORKSHOP ELECTRIC DRILLS



1/2" STANDARD REVERSIBLE
\$50.95

SHOCK ☐ GUARD
DOUBLE INSULATED

1/2" STANDARD — This lightweight drill provides additional power and torque

for intermittent drilling of heavy lumber, metal, etc. Burnout-protected 3.6 amp, AC, 25/60 Hz, 115V motor delivers a full 1/3 HP in both forward and reverse. Other features include: oversize oil impregnated sleeve bearings throughout; shatterproof, non-conductive housing; industrial-rated geared chuck; top-mounted reversing switch and auxiliary handle; and 6-ft., 18-2SJT cord set. Double insulated protection. Tool length 10 1/2". UL and CSA listed.

1/2" COMPACT—For the home handyman and professional who prefers a lightweight, intermittent-duty drill that packs plenty of power to handle tough drilling jobs in wood and metal. Powered by a 3 amp, AC/DC, 25/60 Hz, 115V, high-temperature protected motor that delivers 1/4 HP to the work. Equipped with oversize oil impregnated sleeve bearings throughout; shatterproof, non-conductive housing; industrial-rated geared chuck; auxiliary side handle; and 6-ft., 18-2SJT cord set. Double-insulated to protect user against electrical shock. Tool length 10". UL and CSA listed.

SHOCK ☐ GUARD
DOUBLE INSULATED



1/2" COMPACT NON-REVERSIBLE
\$28.80

Chuck Size & Drill Size	No Load RPM	Amps. at 115V	Delivered HP	Switch	Bit Cap. in Steel	Net Wt.	Stock No.	Retail	Each	Shpg. Wt.
2" Reversible	550	3.6	1/3	AC	1 1/2"	4	22481	\$59.95	\$50.95	5 1/4
2" Compact	500	3.0	1/4	AC/DC	1 1/2"	3 1/2	22483	33.89	28.80	4

SEE WARRANTY INFORMATION ON PAGE 684

Dayton

1/2" TRADESMAN RIGHT-ANGLE DRILL KIT

For Close-Quarter Drilling Between Joists, E



\$135.15

Unit has 3 speeds: 450 RPM (no load) when u as a conventional drill; 300 or 675 RPM (no lo with right-angle drive attachment. Powered a 5 amp AC/DC, 25/60 Hz, 115/125V, high-temperature protected motor that delivers 1/2 to the work. Other features include ball needle bearings; 1/2" capacity, 3-jaw chuck; DC trigger switch; and die-cast aluminum housing. Double insulated electric shock protecti 6 ft. 2-cond. cord set. Kit includes drill right-angle drive attachment, metal carry case, auxiliary handle, allen wrench and ch removal bar. Tool length 17 1/4". Net wt. 18 Shpg. wt. 22 lbs. UL and CSA listed.

No. 22694. 1/2" Right-Angle Drill Kit. Re \$159.00. Each.....\$135

Dayton

1/4" & 3/8" PRODUCTION ELECTRIC DRILL

Built for Maximum Efficiency, Service Life on Tough, Continuous-Duty Production Jobs



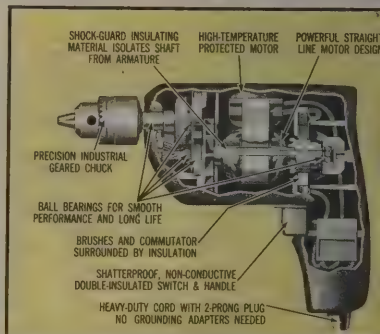
SHOCK ☒ GUARD
DOUBLE-INSULATED

3/8" SINGLE SPEED DRILL
\$89.25

1/4" SINGLE SPEED DRILL
\$75.65

3/8" DRIVER-DRILL*
\$92.65

Ruggedly built with all of the features shown in cut-away. For continuous production line work, plus electricians, plumbers, and other skilled craftsmen. No. 22902 Driver-Drill com-



bines variable speed with reverse drive. Dou insulated. Heavy-duty 10 ft., 2-cond. cord. Bu out protected 25/60 Hz, 115V motor delivers f power to the chuck. UL and CSA listed.

Chuck Size & Drill Type	No Load RPM	Amps at 115V	Delivered HP	Switch	Bit Cap. in Steel	Overall Length	Net Wt.	Stock No.	Retail	Each	Shp. Wt.
1/4" Single Speed	1900	3.0	1/4	AC/DC	1/4"	9 3/4"	3 1/2	22400	\$89.00	\$75.65	3
3/8" Single Speed	1000	3.0	1/2	AC/DC	3/8"	10 1/4"	3 1/2	22401	105.00	89.25	4
3/8" Driver-Drill*	0-1000	3.0	1/2	AC	3/8"	10 1/4"	3 1/2	22902	109.00	92.65	4 1/2

(*) Variable forward and reverse speeds.

Dayton

1/2" PRODUCTION ELECTRIC DRILLS

For Big-Capacity, Continuous-Duty Drilling Work. Ball and Roller Bearing Construction

Full 1/2 HP motor coupled with such fine construction features as hardened, precision-cut steel gears and ball and roller bearings give these drills the power and stamina for continuous drilling in concrete, masonry, steel and other tough materials.

Motor windings are high-temperature insulated magnet wire for extra protection against burnout. AC/DC, 25/60 Hz, 115V motor delivers a full 1/2 HP to the chuck and work. Die-cast aluminum body with shatterproof, non-conductive plastic handles. Heavy-duty 1/2" geared chuck. Reversing model delivers full power, positive drive in both directions. Double-insulated for electric shock protection. Six foot 2-cond. cord set. UL and CSA listed.

SHOCK ☒ GUARD
DOUBLE-INSULATED



1/2 HP, NON-REVERSIBLE
\$85.47

Chuck Size & Drill Type	No Load RPM	Amps at 115V	Div'd. HP	Switch	Bit Cap. in Steel	Overall Length	Net Wt.	Stock No.	Retail	Each	Shp. Wt.
1/2" Non-Reverse	450	5.0	1/2	AC/DC	1/2"	15 3/4"	9 3/4	22297	\$100.56	\$85.47	8
1/2" Reversible	450	5.0	1/2	AC/DC	1/2"	16 1/4"	9 3/4	22298	129.00	109.65	9

Dayton 1/2" & 3/4" ELECTRIC HAMMER-DRILLS

8000 and 6000 Blows per Minute. Twist Lock Selector Ring for Hammer or Regular Drilling

SHOCK ☐ GUARD
DOUBLE-INSULATED



3/4" HAMMER-DRILL

\$127.12

SHOCK ☐ GUARD
DOUBLE-INSULATED



1/2" HAMMER-DRILL

\$101.15

Hammer or drill by simply changing selector ring position. Strong cam and roller hammer mechanism gives 3 times more life than competitive designs. The reason: hammer blows never touch the cam rollers. Instead, a rugged anvil absorbs impact. Heat treated gear train, ball and roller bearings. AC/DC, 25/60 Hz, 115V motor. Double-insulated to protect operator against electric shock. Heavy-duty cord with two-prong plug. Adjustable depth bar. UL and CSA listed.

HAMMERING and DRILLING CAPACITY

Hammer-Drill	Chuck Size	HAMMERING—With Percussion Carbide-Tipped Drills					DRILLING—With Twist Drills	
		Brick	Concrete	Masonry	Tile	Porcelain	Steel	Wood
1/2"	3/8"	1 1/2"	1 1/2"	1 1/2"	3/4"	3/4"	1 1/2"	3/4"
3/4"	1/2"	3/4"	3/4"	3/4"	1/2"	1/2"	1 1/2"	1"

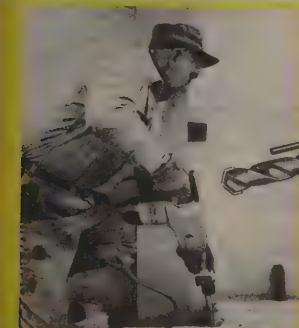
SPECIFICATIONS and PRICES

Size*	No Load RPM	Blows per min.	Amps. Delivered at 115V	HP	Switch	Cord Length	Overall Length	Net Wt.	Stock No.	Retail	Each	Shpg. Wt.
1/2"	1900	8000	3.0	1/2	AC/DC	10 ft.	13"	5 3/4	22403	\$119.00	\$101.15	8
3/4"	1500	6000	5.0	1 1/2	AC/DC	6	19"	9 3/4	22404	149.55	127.12	10

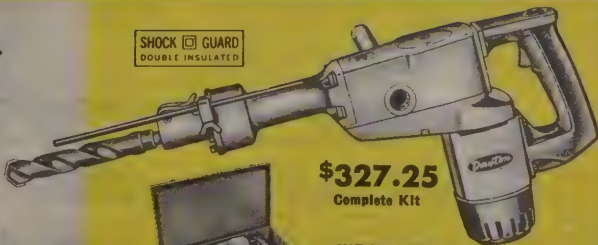
*Refers to size of hole drilled.

Dayton 1 1/2" ELECTRIC ROTARY HAMMER

For Hammering with Rotation or Hammering Alone. Uses Percussion Drill Bits & Demolition Tools



SHOCK ☐ GUARD
DOUBLE-INSULATED



\$327.25

Complete Kit

KIT INCLUDES

1 1/2" rotary hammer, oil can with special hammer lubricant, 3-position auxiliary handle, dust shield, depth gauge, 3 chisels, hex shank "A" taper chuck and steel carrying case.

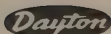
Use with carbide-tipped percussion bits for drilling through concrete and masonry in record time; or with hammer tools to make short work of channeling, chiseling, slotting, chipping, etc. Universal 8.0 amp, AC/DC, 25/60 Hz, 115/125V motor delivers 3000 blows per minute (BPM) and 320 revolutions per minute (RPM). Pre-set safety clutch is put at low torque, high-speed and of drive train to minimize slippage and

wear. Other construction features include ball and needle bearings; forged steel connecting rods; and double insulation. 15 ft. 2-cond. cord set. Maximum capacity 1 1/2" with carbide-tipped percussion bits, 2" with core-type bits. Tool length 20 1/2". Net wt. (hammer only) 18 lbs. Shpg. wt. (kit) 40 lbs. UL and CSA listed.

No. 22778. 1 1/2" Rotary Hammer Kit. Retail \$385.00. Each \$327.25

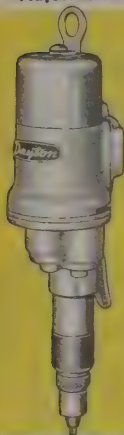
Carbide-Tipped Percussion Bits—See Index Under "Drill Bits"

SEE WARRANTY INFORMATION ON PAGE 684



PRODUCTION ELECTRIC SCREWDRIVERS

Adjustable Clutch Allows the Right Setting for any Production Work. Full Reverse Power



HANGER STYLE
Adjustable Clutch

\$152.15



Correct tension is set by lining up end of torsion spring with appropriate no. on adjusting ring. Tongs and instructions included.

SHOCK ☒ GUARD
DOUBLE-INSULATED



PISTOL-GRIP STYLE
Adjustable Clutch

\$123.25

Clutch adjusts from 5 to 70 in.-lbs. to provide the right torque for handling jobs from delicate assemblies to No. 12 wood screws, 1/4" machine screws. Hanger style screwdriver has all ball bearing construction; powerful AC, 25/60 Hz, 115V motor; and 7 ft. 3-cond. coiled cord. Pistol grip model has ball and roller bearings; 2 amp., AC/DC, 25/60 Hz, 115V motor; 10 ft. heavy-duty cord with two-prong plug; 2-position side handle; plus double insulation to protect operator against electric shock. Both models are UL and CSA listed. Net wt. approximately 4 lb Shpg. wt. 6 lbs.

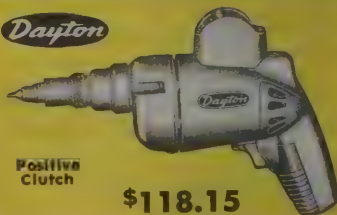
Type	Drive Chuck	No-Load RPM	Amps. at 115V	Switch	Overall Length	Stock No.	Retail	Each
Hanger Style	1/4" Hex	800	1.7	AC	10 3/4"	22410	\$179.00	\$152.15
Pistol-Grip	1/4" Hex	600	2.5	AC/DC	12 1/4"	22409	145.00	123.25

TRADESMAN ELECTRIC SCREWDRIVER

Drives when Operator Applies Pressure,
Stops Instantly when Pressure is Released

Ideal for driving screws in materials of different density. Universal 2.7 amp, AC/DC, 25/60 Hz, 115/125V motor drives 1/4" hex chuck at 1900 RPM with no load. Capacity: 1/4" machine screws, No. 10-1 1/4" wood screws. Ball and needle bearing construction for continuous production driving and nut running. Also has die-cast aluminum housing, AC/DC operating switch, and convenient top-mounted reversing switch. 10 1/2 ft. 3-cond. cord set. Shpg. wt. 5 1/4 lbs. UL and CSA listed.

No. 22779. Dayton Tradesman Electric Screwdriver. Retail \$139.00. Each.....\$118.15



Positive
Clutch

\$118.15

WORKSHOP ELECTRIC SCREWDRIVER

Clutch Engages as Pressure is Applied to Drive Screws, Releases as Pressure is Withdrawn

Makes short work of installing or removing No. 4 through No. 12 slotted, hex or Phillips head screws in sheet metal as well as the hardest woods. No pre-drilling necessary in soft woods. Powerful 115V, AC/DC, 2.0 amp motor develops 325 no-load RPM. 100 to 1 gear reduction for high torque. Self-lubricating bronze bearings with ball thrust bearing on spindle. Rear-mounted reversing switch. Smooth finish aluminum motor housing. 8 1/2" long, 3" high. 3-cond. cord.

Includes three 1/4" hex-shank bits—one for Phillips screws and two for slotted screws. UL and CSA listed. Shpg. wt. 3 1/2 lbs.

No. 22218. Dayton Workshop Screwdriver. Retail \$50.60. Each \$35.42; lots 3.....\$33.65



\$33.65

Lots 3



8-PC. SCREWDRIVER ACCESSORY KIT

Kit includes 1/4" socket adapter; 1/4" hex magnetic screw holder; Nos. 1, 2 and 3 Phillips bits; and 3 slotted bits and finders for screw sizes 6-8, 8-10 and 10-12. All have 1/4" shaft. In display package. Shpg. wt. 8 oz.

No. 22258. 8-Pc. Accessory Kit. Retail \$8.95. Each.....\$5



Dayton 1/2" REVERSIBLE IMPACT WRENCHES

- Deliver 2000 Impacts per minute, cut wheel changing time up to 80%
- Up to 130 ft./lbs of driving torque forward or reverse—break down and assemble machinery, farm equipment and auto engines rapidly
- Handle nuts and bolts from 3/8 to 1", accept all 1/2" sq. dr. impact sockets
- Drill up to 1/2" in steel and 3/4" in concrete with proper chuck
- Double-Insulated to protect operator against electrical shock



TRADESMAN
\$84.95

SHOCK ☒ GUARD
DOUBLE INSULATED



**TRADESMAN
DELUXE**
\$101.96



PRODUCTION
\$118.96

TRADESMAN—An exceptional buy for mechanic, maintenance men and others who require an impact wrench for daily intermittent use. High-temperature resistant, 4.0 amp, 1/3 HP, AC, 25/60 motor delivers a full 130 ft./lbs. of driving torque in seconds. Operates at no-load speed of 1900 RPM, delivers 2000 impacts per minute. Has cam-mounted reversing switch for changing direction fast and super-strength fiberglass housing that resists breakage, even during extreme use. Can't be stalled or overloaded.

TRADESMAN DELUXE—Designed and built for heavier duty use. Has rugged impact mechanism and powerful, burnout-protected 4.0 amp, 1/3 HP, Universal AC/DC, 25/60 Hz motor. Operates at no-load speed of 1900 RPM, delivers 2000 impacts/min. Can't be stalled or overloaded. Cam-mounted reversing cap, alum. housing.

PRODUCTION—The best electric impact wrench money can buy. Rated for continuous, heavy-duty driving and removing jobs. Built with ball bearings, plus an extra heavy-duty anvil for maximum service life in rugged use. High-temperature resistant 4.0 amp, 1/3 HP, Universal AC/DC, 25/60 Hz motor powers the 1/2" square drive at a no-load speed of 1900 RPM. Can't be stalled or overloaded. Operates at 2000 impacts per minute. Reversing cap is located at back of aluminum housing.

ALL MODELS: Fastening capacity—3/8 to 1" dia. nuts and bolts; drilling capacity (with proper chuck)—1/2" in steel, 3/4" in concrete. Double-insulated for protection against electrical shock. Two-prong plug (eliminates need for adapters). Sure-grip, non-conductive handle for added comfort, safety and control. UL and CSA listed.

Type	Sq. Dr.	No-Load RPM	Switch	Overall Length	Cord (18 Ga.)	Net Wt.	Stock No.	Retail	Each	Shpg. Wt.
Tradesman	1/2"	1950	AC	11"	6 ft.	5 1/2	2Z482	\$99.95	\$84.95	6 3/4
Tradesman Deluxe	1/2"	1900	AC	11 1/4"	6	6 1/2	2Z405	119.95	101.96	8
Production	1/2"	1900	AC/DC	11 1/4"	25	7	2Z406	139.95	118.96	10

3/8" TRADESMAN REVERSIBLE IMPACT WRENCH

Delivers 2200 Impacts/Min., Up To 75 Ft./Lbs. Driving Torque. Capacity: 1/4" Bolts, 1/2" Nuts

This intermittent use tool is designed and built for fastening and removing bolts on motorcycles, machinery and equipment, automotive transmissions, radiators, etc. High-temperature resistant 3.0 amp, 1/5 HP, AC, 115/125V motor delivers 75 ft./lbs. of driving torque. Trigger-type AC switch with integral reverse. Glass reinforced phenolic frame with die-cast aluminum outer case and shatterproof, non-conductive handle. Double insulated. 6 ft. 2-cond. cord set. 1 1/2" long. Net wt. 4 1/4 lbs. Shpg. wt. 5 lbs. UL and CSA listed.

2Z692, 3/8" Tradesman Impact Wrench. Retail \$95. Each \$59.45



\$59.45

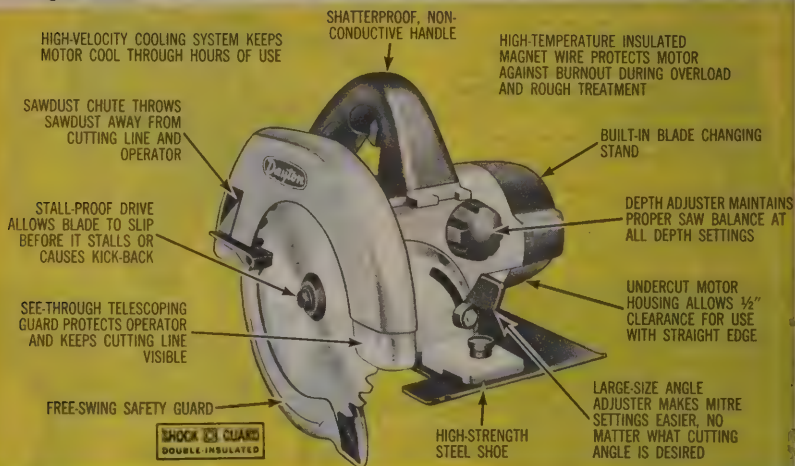
SHOCK ☒ GUARD
DOUBLE-INSULATED

See Accessories at End of Tool Section For Impact Socket Sets and Steel Carrying Case

SEE WARRANTY INFORMATION ON PAGE 684

Dayton 6 1/2", 7 1/4" & 8 1/4" BUILDERS SAWS

Big 1.5 Or 2.0 HP Motor Provides Plenty of Cutting Power. All Ball Bearing Construction



Shown above are some of the features that make these 550 RPM saws the choice of professionals everywhere. Built and powered to take the rough, on-the-job treatment that carpenters and others demand in a full-service, continuous use saw. Powerful 10 to 13 amp, 115V, 25/60 Hz, AC/DC motor delivers 1.5 or 2.0 HP of cutting power. Adjustable front end provides important safety feature, allows operator to keep hands comfortably behind work when cutting. Double-insulated to give operator electric shock protection. 6-ft., two-prong cord set. UL and CSA listed.

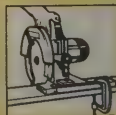
RIP GUIDE FOR DAYTON BUILDERS SAWS

No. 22448. Rip Guide. Adjustable. Shpg. wt. 12 oz. Retail \$4.93. Each \$4.19

6 1/2" SAW \$75.65 7 1/4" SAW \$84.15 8 1/4" SAW \$92.65



Straight cuts with rip guide



Variable depth cuts

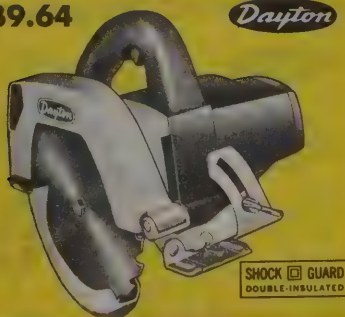


Angle cuts up to 45°

Saw accessories—See Index under Blades, or Wheels, Cutting

Blade Dia.	Depth of Cut At 90°	Depth of Cut At 45°	No-Load RPM	Amps. at 115V	Delivered HP	Switch	Net Wt.	Stock No.	Retail	Each	Sh W
6 1/2"	2"	1 1/4"	5500	10.0	1.5	AC/DC	12 1/2	22493	\$89.00	\$75.65	1
7 1/4"	2 3/4"	2"	5500	12.0	2.0	AC/DC	13	22414	99.00	84.15	1
8 1/4"	2 3/4"	2 3/4"	5500	13.0	2.0	AC/DC	14	22415	109.00	92.65	1

\$39.64



7 1/4" DELUXE SAW

1 1/2 HP Motor Powers Saw at 5500 RPM. Ball Thrust and Sleeve Bearing Construction

Home remodeling and workshop projects easy with this powerful 10 amp., 1 1/2 HP saw. delivers 5500 RPM for cutting material up to 2" deep at 90° and 1 1/4" with shoe tilted to Position of shatterproof, insulated handle provides perfect tool balance. Stall-proof drive blade slip before stalling or kick-back. Sawdust chute keeps cutting line clearly visible, throws sawdust away from operator. Free-swing blade guard. Double-insulated for electric shock protection. Switch: AC only. Two-prong plug. 6 ft. heavy-duty cord. Includes rip guide with built-in blade changing wrench. UL and CSA listed. Net wt. 12 lbs. Shpg. wt. 13 lbs.

Saw access.—See Index under Blades, or Wheels, Cutting No. 22413. Dayton 7 1/4" Deluxe Saw. Retail \$47.17. Each \$39.64

1 & 2 SPEED JIG/SABRE ELECTRIC SAWS

For Fast, Efficient Cutting of
Wood, Metal & Other Materials

TRADESMAN SAWS—Dependable tools for tradesmen and industrial maintenance shops. Ball and roller bearing construction gives long trouble-free service life. Shoe tilts 15° either side for mitre cutting, reverses for flush cutting—also permits pocket and plunge cutting. Angle blade design clears chips efficiently, speeds up cutting. Blade rotates 90° for close-quarter work. Length of stroke: 1/2". Shatterproof, non-conductive handle and housing. Double insulation surrounds all live parts to give operator protection against electric shock. UL and CSA listed.

WORKSHOP SAW — Perfect for the home handyman. Lightweight, shatterproof housing. Oil impregnated bronze bearings. Shoe tilts 15° for mitre cuts, reverses for flush cuts. Also designed for pocket and plunge cuts. Blade rotates 90° for close work. Length of stroke: 1/2". Double-insulated. UL and CSA listed.

Dayton

TRADESMAN
Single-Speed
3000 SPM

\$37.10

TRADESMAN
Two-Speed
3000/2300 SPM

\$42.07

WORKSHOP
Single-Speed
3200 SPM

\$23.76



Extra jig/sabre saw blades—See index under Blades.

Type Saw	No. Speeds	No-Load SPM	Amps at 115V	Switch	2-Cond. Cord	Stock No.	Retail	Each	Shpg. Wt.
Tradesman	1	3000	2.7	AC/DC	10 Ft.	22412	\$43.65	\$37.10	4
Tradesman	2	3000/2300	2.1	AC	10	22781	49.50	42.07	4 3/4
Workshop	1	3200	2.5	AC/DC	6	22411	28.28	23.76	3

, 2, VAR.-SPEED TRADESMAN RECIPROCATING SAW KITS

Powerful 1/2 HP Motor Delivers 2500 5/8" SPM for Cutting a Wide Range of Materials. Two Speed Model Also Has Low Speed of 1700 SPM. Variable Speed Model Operates at 0 to 2500 SPM

SHOCK ☒ GUARD
DOUBLE-INSULATED

Single Speed
\$100.26

Complete Kit



KITS INCLUDE:

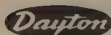
- Reciprocating Saw
- 9 Assorted Saw Blades
- Blade Wrench & Lubricant
- Steel Carrying Case

Dependable 1/2 HP, 25/60 high temperature resistant motor provides plenty of power to cut different thicknesses and types of ferrous metals including cast iron and hard alloy steels. Also makes it work of cutting non-ferrous metals, plywood, Masonite, plasterboard, etc.—and is ideally suited for making pocket and plunge cuts to accommodate outlet boxes, ducts and registers. Heavy duty ball and roller bearing construction throughout. Directed air flow clears chips quickly.

Cutting angle prolongs blade life, rocker shoe provides smooth, even cuts. Positive blade lock. Vibration-free drive consists of only 3 moving parts—drive shaft, connecting rod and piston. Housing is die-cast aluminum with vinyl boot on nosepiece for better grip. Saw-grip handle is shatterproof and non-conductive. Trigger-type, double-pole switch with locking button. Two speed model also has switch ring for high and low speeds. Double-insulated for electric shock protection. 10 ft. 2-cond. heavy duty cord set. Kit includes saw, 9 blades, blade wrench and steel carrying case. UL and CSA listed.

Speeds	No-Load SPM	Amps at 115V	Delivered HP	Switch	Saw Dimen. (Lgth. x Ht.)	Saw Wt.	Stock No.	Complete Kit Retail	Each	Shpg. Wt.
One	2500	5.0	1/2	AC/DC	17 1/8 x 4"	7	22303	\$117.95	\$100.26	16
Two	2500/1700	4.4/3.3	1/2	AC/DC	17 1/8 x 4	7 1/2	22693	122.95	104.50	16
Variable	0/2500	5.0	1/2	AC	17 1/8 x 4	7	22901	126.00	107.10	17

SEE WARRANTY INFORMATION ON PAGE 684



TRADESMAN 1 1/4 HP ELECTRIC ROUTER

For Cabinetwork, Millwork and Professional Tradesman. Heavy Duty Ball Bearing Construction
3-Collet Chuck, Adjustable Straight/Circular Guide and 2 Bit Changing Wrenches Included



Adjustable Straight
and Circular Guide

\$104.84

Complete with
3-Collet Chuck,
Adjust. Guide
and Wrenches

Designed and built to handle applications encountered by the professional tradesman—for example: routing, rabbeting, grooving, dadoing and edge trimming of plastic laminates and veneers. Also adapts to all model templates for hinge and butt routing of door and door jambs, etc. Powered by a 1 1/4 HP, 9.0 amp AC/DC motor. 115VAC, 25/60 Hz, 24,000 RPM (no load). Ball bearing construction. Also features a non-marring sub-base to prevent scratching of work surface; heavy duty aluminum base with 1/4" depth adjustments; and pushbutton spindle lock. Supplied with a versatile 3-collet chuck that fits 1/4, 3/8 and 1/2 standard shank bits—plus adjustable straight and circular guide, and two bit changing wrenches. Tool wt. 7 1/2 lbs. UL and CSA listed Dayton brand. Shpg. wt. 10 lbs.

No. 2Z898. Retail \$123.35. Each\$104.84

DAYTON ACCESSORIES FOR ELECTRIC ROUTER ABOVE

INDIVIDUAL CARBIDE-TIPPED ROUTER BITS

Flush Trim and Bevel Trim Types. Dayton Brand

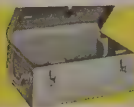


FLUSH TRIM
\$18.69
Lots 3



For close tolerance edge trimming with perfect, chatter-free results—even on high pressure laminates. Have ball bearing guide wheel for exacting depth of cut guide control, and carbide-tipped cutter for long life. No. 6X442 has flush 90° cutter; No. 6X443, 15° angle bevel cutter. In vinyl pouch. Dayton brand.

Trim Type	Shank	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Flush	1/4"	6X442	\$24.93	\$19.94	\$18.69	7 oz.
Bevel	1/4"	6X443	26.80	21.44	20.10	4 oz.



STEEL CARRYING CASE

Steel case holds No. 2Z898 router, accessories. Gray finish. Dayton brand. 8 lbs. No. 2Z900. Carrying case. Retail \$17.38. Each.....\$14.77

6-PIECE HIGH SPEED ROUTER BIT KIT

1/4" Shank. For Routing, Lettering & Sign Work
Decorative Edging and Offhand Rabbeting



\$29.81

Set of six high speed steel bits with 1/4" shank. Includes 1/4" and 1/2" double-fluted straight bits for general purpose routing; 1/2" V-grooving bit for lettering and sign work; 3/8" corner round bit for decorative edging and drop leaf table joints; 1/4" beading bit for decorative edging; and 3/8" rabbeting bit with pilot for offhand rabbeting. In vinyl pouch. Dayton brand. Shpg. wt. 1 lb. No. 6X441. Dayton 6-Pc. Router Bit Kit. Retail \$39.75. Each \$31.80; lots 3\$29.81

TRADESMAN LAMINATE TRIMMER

Powerful 1/3 HP, 3.0 Amp Motor Drives Bit at 30,000 RPM with No Load. Three-Way Carbide-Tipped Trim Bit Included



\$80.15

Ideally suited for on the job site work by professional fabricators because of its compact, light weight and efficient design. Unit is equipped with a 3-way carbide-tipped trim bit for fast, smooth end and side trimming and beveling of all plastic laminates and wood veneers. Powered by a 1/3 HP, 3.0 amp, 115VAC, 25/60 Hz, ball bearing motor that drives bit at 30,000 RPM with no load. Special laminate trim base has positive nylon roller guide control to maintain easy, accurate cutting of all laminates, including post forming applications. Comes equipped with 1/4" collet chuck, two bit changing wrenches and 3-way carbide-tipped trim bit for end, side and 22° bevel edge trimming. Tool wt. 3 3/4 lbs. UL and CSA listed. Dayton brand. Shpg. wt. 3 3/4 lbs.

No. 2Z899. Dayton Tradesman Electric Laminate Trimmer. Retail \$94.30. Each\$80.15

1/8 to 1/4" ELECTRIC HAND GRINDERS

1/17 to 1/4 HP Motors Drive Chuck At No-Load Speeds of 15,000 to 35,000 RPM

No. 2Z824
1/4" PRODUCTION
SINGLE SPEED

\$83.30

No. 2Z826
5/32" PRODUCTION
SINGLE SPEED,
FLEX-SHAFT

\$153.00

No. 2Z825
1/8" PRODUCTION
SINGLE SPEED

\$136.00

No. 2Z831
1/8" TRADESMAN
SINGLE SPEED

\$20.38

No. 2Z832
1/8" TRADESMAN KIT
SINGLE SPEED

\$28.37

No. 2Z833
1/8" TRADESMAN KIT
VARIABLE SPEED

\$37.16

PRODUCTION HAND GRINDERS. Ideal for precision grinding, filing and deburring applications in tool and die work, pattern and model making, and other trades. Also used for production grinding of small parts when equipped with mounted wheels up to 1" diameter. All ball bearing construction for long service life; fan-cooled 115V, 60 Hz, AC/DC motor drives chuck at no load speeds of 15,000 to 35,000 RPM; cast-metal housing; and 8-ft. 3-cond. cord set. No. 2Z824 is furnished with 1/4" collet chuck and 1/8" reducing collet. No. 2Z825 has 1/8" collet chuck. Collet and spindle wrenches are supplied with both models. No. 2Z826 is equipped with a removable grinding ball, plus 38" extra-long flexible shaft that accepts tool shanks up to 3/32" in geared chuck (chuck key included). UL listed.

TRADESMAN HAND GRINDERS. Compact, lightweight tools for handling a wide variety of operations, including: grinding, deburring, sanding, carving, buffing, sharpening and engraving. All models feature a 115V, 60 Hz, AC/DC or AC only motor; oil impregnated bronze bearings; Celanese glass-filled nylon housing; and 6 ft. 3-cond. cord set. No. 2Z831 single speed grinder comes with 1/8" and 3/32" collet chucks, plus collet key. Thirty-five piece kit for single and variable speed models (Nos. 2Z832, 2Z833) include: hand grinder; 1/8", 3/32", 1/16" and 1/32" collet chucks; assorted high-speed steel cutters, emery wheels and points; wire and bristle brushes; sanding discs; drum sander with extra sanding bands; mandrels; dressing stone; and collet key—all in self-storing polyethylene case. UL and CSA listed.

See accessories at end of tool section for Rotary Cutters, Grinding Points, Wire Brushes, Bristle Brushes and Drum Sanders for hand grinders

Size	Grinder Type	Motor		No-Load RPM	Switch	Chuck		Tool Length	Tool Wt.	Stock No.	Retail	Each	Shpg. Wt.
		Amps at 115V	HP			Type	Capacity						
PRODUCTION ELECTRIC HAND GRINDERS													
1/4"	Single Speed	1.2	1/10	22,000	AC/DC	Collet	1/4"	10"	3	2Z824	\$98.00	\$83.30	2
1/8	Single Speed	3.0	1/4	35,000	AC/DC	Collet	1/8"	10 3/4"	3	2Z825	160.00	136.00	3
5/32	Single Speed*	1.2	1/15	15,000	AC/DC	Geared	5/32"	38 1/2"	6	2Z826	180.00	153.00	6
TRADESMAN ELECTRIC HAND GRINDERS													
1/8	Single Speed	0.8	1/15	30,000	AC/DC	Collet	1/8"	7 1/4"	11 oz.	2Z831	\$33.97	\$20.38	1
1/8	Single Speed Kit	0.8	1/15	30,000	AC/DC	Collet	1/8"	7 1/4"	11 oz.	2Z832	47.29	28.37	2
1/8	Var. Speed Kit	0.8	1/17	5-25,000	AC	Collet	1/8"	7 1/4"	11 oz.	2Z833	61.94	37.16	2

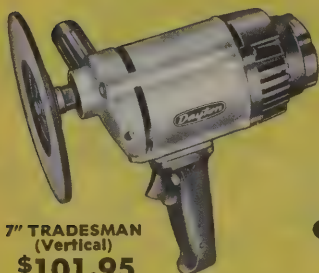
) Flex-shaft grinder.

(†) Length of flexible shaft without geared chuck handpiece attached.

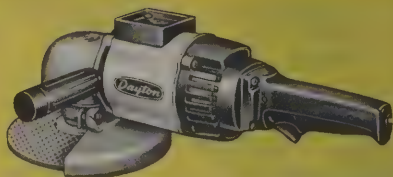
SEE WARRANTY INFORMATION ON PAGE 684

7 and 9" ELECTRIC SANDER-GRINDERS

Powerful Motors (up to 12 Amp, 2 HP) Remove Material Fast, Operate Disc at Full RPM

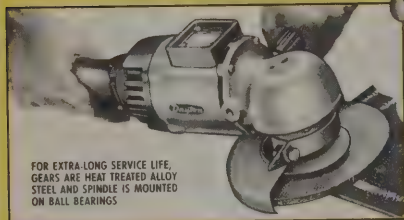


**7" TRADESMAN
(Vertical)
\$101.95**

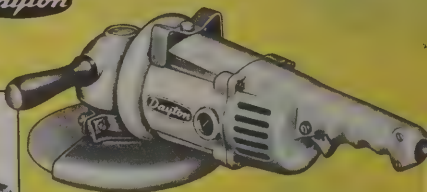


**7" TRADESMAN
(Horizontal)
\$109.65**
Less guard and grinding wheel

Dayton



FOR EXTRA-LONG SERVICE LIFE,
GEARS ARE HEAT TREATED ALLOY
STEEL AND SPINDLE IS MOUNTED
ON BALL BEARINGS



**7" PRODUCTION
(Horizontal)
\$141.05**
Less guard and grinding wheel

**9" PRODUCTION
(Horizontal)
\$150.57**
Guard included, less grinding wheel

7" TRADESMAN SANDER-GRINDERS—Professional-duty tools with ball bearing construction; epoxy encapsulated field coils to protect motor against abrasive dust; and high temperature insulated magnet wire to safeguard motor against burn-out. Die-cast aluminum frame with shatter-proof, non-conductive back cap and handle. Instant release trigger switch for extra safety. Include two-position side handle, flexible sanding disc pad and heavy duty 3-cond. cord set. Order grinding wheels, cup wheels and safety guard for horizontal unit separately (see below). UL and CSA listed.

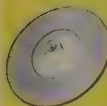
7" & 9" PRODUCTION SANDER-GRINDERS—Heavy duty 12 amp, 2 HP motor and all ball bearing construction give these units the power and stamina for handling all types of continuous duty, production work. High speed and high torque provide maximum performance under heavy loads—for example, smoothing rough castings or surfacing concrete. Tools are perfectly balanced, easy to use. Come with side handle, flexible pad and 3-cond. cord set. Safety guard also included with 9" unit. Order grinding wheels, cup wheels and safety guard for unit separately (see below). UL and CSA listed.

Sanding discs and wire cup brushes—See Index under Sandpaper and Wire Brushes

	Size & Type	Max. HP	No-Load RPM	Amps at 115V	Switch	Cord Lgth.	Tool Lgth.	Tool Wt.	Stock No.	Retail	Each	St V
TRADESMAN	7" Horizontal	1 1/4	5500	7.0	AC/DC	10'	16"	9 1/4	22420	\$129.00	\$109.65	
	7" Vertical	1 1/4	5000	7.0	AC/DC	6'	10 1/2"	7 1/4	22419	119.95	101.95	
PRODUCTION	7" Horizontal	2	5000	12.0	AC/DC	10	19	13	22592	165.95	141.05	
	9" Horizontal	2	5000	12.0	AC/DC	10	20	15	22593	177.15	150.57	

7 and 9" GRINDING WHEELS

Designed to fit all 7 and 9" grinders with 5/8"-11 thread. Easy-on, easy-off feature allows operator to change wheels twice as fast—no special tools or arbor adapters needed. Virtually eliminates downtime. Metal wheels have aluminum oxide grain; masonry wheel has silicon carbide grain. Shpg. wt. 1 to 2 lbs. Dayton brand.



5 and 6" CUP WHEELS

These high quality wheels fit 7 and 9" grinders with standard 5/8"-11 thread. Metal wheel is aluminum oxide; masonry wheel is silicon carbide. Shpg. wt. 4 lbs. Dayton brand.



Type	Dia.	Stock No.	Retail	Each	Lots 5
Metal	7"	4X889	\$5.83	\$4.66	\$3.79
Masonry	7"	4X890	5.93	4.74	3.85
Metal	9"	5X587	7.90	6.32	5.14

Type	Dia.	Stock No.	Retail	Each	L
Metal	5"	4X891	\$10.30	\$8.24	\$6.79
Masonry	5"	4X892	10.27	8.22	6.79
Metal	6"	5X588	12.03	9.62	7.90

SAFETY GUARD—For 22420 and 22592

No. 22444. Safety guard, clamp. Shpg. wt. Retail \$15.20. Each \$12.16

Dayton**5" TRADESMAN ELECTRIC GRINDER**

6 Amp, 3/4 HP Motor Operates Wheel at 4500 RPM (No Load) to Remove Material Fast

High-temperature resistant AC/DC, 25/60 Hz, 115/125V motor; ball and needle bearings. Die-cast aluminum frame with vinyl boot. Back cap and handle are shatterproof and non-conductive. AC/DC switch. Uses 5 x 3/4" grinding wheels plus wire brushes. Double insulated. 6 ft. 2-cond. cord. Wheel guard incl. Length 21". Net wt. 11 1/4 lbs. Shpg. wt. 14 3/4 lbs. UL, CSA listed.

No. 2Z695. Retail \$175.00. Each.....\$148.75

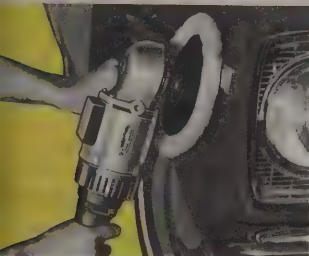
5 x 3/4" VITRIFIED GRINDING WHEEL

For No. 2Z695 grinder above. Aluminum-oxide grain. Coarse 24 grit. Meets ANSI B7.1 safety code. 4900 max. RPM. Wt. 1 1/4 lbs. Dayton brand.

No. 5X963. Retail \$4.85. Each \$2.90; lots 5.....\$2.42

SHOCK ☒ GUARD
DOUBLE-INSULATED**\$148.75**Less Grind-
ing Wheel**Dayton****7" TRADESMAN HORIZONTAL POLISHERS**

Big 7 Amp, 115V, AC/DC, 25/60 Hz Motor Delivers up to 1 1/4 HP, Operates Buffing Disc at Full RPM

**EXTRA 7 1/2" WOOL PAD**

Heavy-duty 1" thick pile with woven duck backing and 3/4" arbor hole. For use with polishing and abrasive cleaning compounds. Shpg. wt. 8 oz.

No. 2Z331. 7 1/2" Wool Pad. Retail \$5.53. Each \$4.70; lots 5.....\$4.23



EITHER MODEL

\$110.46SHOCK ☒ GUARD
DOUBLE-INSULATED

For use with the latest acrylic and high-lustre liquid polishes used on cars and other equipment. Balanced design and two-position handle for easy handling. High-temperature, burnout protected motor. Epoxy encapsulated field coils protect motor against abrasive dust. Ball bearing construction for long service life. Instant release, AC/DC switch for extra safety. Double insulation safeguards against electric shock. Heavy-duty 25 ft. cord with two-prong plug. 7" flexible backing pad and 7 1/2" wool buffing pad included. UL and CSA listed.

No-Load RPM	Size	Max. HP	Amps at 115V	Switch	Tool Length	Tool Wt.	Stock No.	Retail	Each	Shpg. Wt.
2600	7"	1 1/4	7.0	AC/DC	16"	9 1/2	2Z302	\$129.95	\$110.46	12
1800	7	1 1/4	7.0	AC/DC	16	9 1/2	2Z903	129.95	110.46	12

METAL CUTTING ELECTRIC SHEARCuts 16 Ga. Sheet Steel at the Rate of 16 Feet per Minute
Cutting Blades Adjustable for Depth and Clearance

A labor-saving professional tool for sheet metal contractors, heating and air conditioning installers, fabricators and others who work with light gauge metals. Delivers 3750 strokes per minute for cutting 16 ga. sheet steel or heavier non-ferrous metals. Offset shoe keeps cutting blade visible, assures perfectly straight cuts or precise circular patterns. Cutting blades adjustable for depth and clearance.

Heavy-duty double-pole AC/DC switch is located in handle for instant control at all times. Powerful 4.0 amp. AC/DC, 25/60 Hz motor. Ball and roller bearing construction. Heat treated alloy steel gears. Lightweight die-cast aluminum housing. Six ft. 3-cond. cord. Comes with one set of cutting blades. Shear length 10 1/8". Net wt. 8 3/4 lbs. UL and CSA listed. Shpg. wt. 9 3/4 lbs.

No. 22418. Dayton Metal Cutting Electric Saw. Retail \$189.00. Each.....\$160.65

**\$160.65****PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST**

Information on most major items in Grainger's MotorBook is available for the asking. Let our sales or counter people know what you need,

or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.

SEE WARRANTY INFORMATION ON PAGE 684

Dayton**ORBITAL-ACTION ELECTRIC SANDERS**

Sands Twice as Fast as Competitive Models. No Swirl Marks on Finished Work

**TRADESMAN**
\$42.45**SHOCK GUARD**
DOUBLE-INSULATED**WORKSHOP**
\$22.45

TRADESMAN SANDER—Powerful 2.5 amp., 1/4 HP motor generates 10,500 orbits per minute for fast sanding results. Gives a fine, professional finish to furniture, cabinets, etc. Ball and roller bearings for long life, smooth operation. Up-front "T" handle adjusts to operator's liking, permits two-handed control. 10 ft. cord.

WORKSHOP SANDER—Operates at 10,000 orbits per minute to remove material fast, leave a smooth finish. 1.8 amp., 1/5 HP motor. Ball and sleeve bearings. Heavy-duty 6 ft. cord.

BOTH MODELS: Neoprene pad, impervious to water. Use 3½ x 9" abrasive sheets. Double insulated shock protection. AC/DC switch. Two prong plug. UL and CSA listed. Net wt. 3½ lbs.

Abrasive sheets (3½ x 9")—see Index under Sandpaper

Type Sander	Stock No.	Retail	Each	Shpg. Wt.
Tradesman	22417	\$49.95	\$42.45	4
Workshop	22416	26.73	22.45	4

Dayton**3 x 21" TRADESMAN ELECTRIC BELT SANDER**

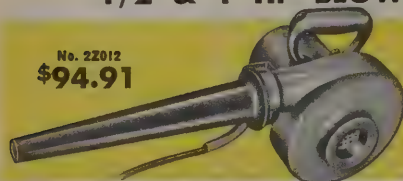
Heavy Duty 6 Amp, 3/4 HP Motor Drives Sanding Belt at 1300 FPM. Ball & Needle Bearing Construction

**\$110.07**

A professional-duty tool that handles practically any surfacing job from rough sanding to fine finishing work. Powerful 3/4 HP, 6 amp, 115V, 25/60 Hz., AC/DC motor drives the continuous sanding belt at speeds up to 1300 surface ft. per minute with no load. Heavy-duty ball and needle bearing construction. Sands within ½" of vertical surfaces. Has positive locking, lever-action belt changer; belt-track adjustment knob; no-slip belt drive; and other fine features that give this tool a reputation for unexcelled quality and performance. AC/DC switch, 7 ft. 3-cond. cord set. 3 assorted sanding belts included. Dimensions: 12¼ L x 6½ H x 6" W. Net wt. 11 lbs. Shpg. wt. 13 lbs.

Sanding belts (3 x 21")—See Index under Sandpaper

No. 22591. 3x21" Tradesman Belt Sander. Retail \$129.50. Each.....**\$110.07**

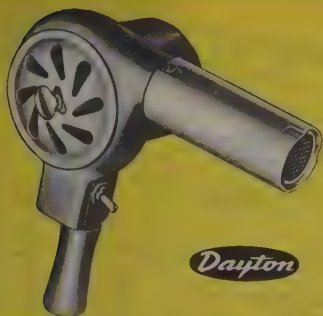
1/2 & 1 HP BLOWER-SUCTION CLEANER**No. 22012**
\$94.91

Unit produces a high volume of dry air for all cleaning electric motors, machinery, etc.—also for drying varnish, paint and other finishes. With kit No. 22013, unit functions as a vacuum cleaner—attachments are used on air intake end of blower. Powered by 115V, AC/DC, pre-lubricated sealed ball bearing motor—single speed on Model 22012, two-speed on No. 22013. Equipped with 11½" hard rubber blower nozzle and 20 ft. 3-cond. cord set. Blue finish. UL and CSA listed. Cadillac brand.

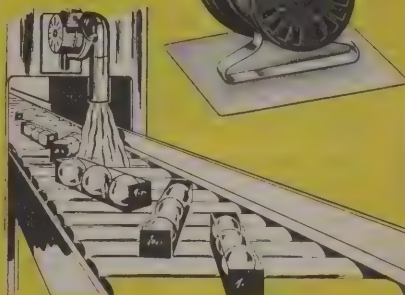
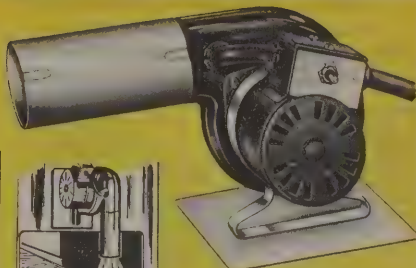
Speeds	HP	Amps	Capacity CFM	Velocity Lin. FPM	H	Dimensions W	L	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Single	1/2	3	95	17,000	7¼"	7¼"	20½"	F-10	22012	\$121.00	\$94.91	10
2/Low	3/4	6½	150	21,500	9¼"	9¼"	21½"	HP-3	22090	177.50	140.54	18
High	1	9	196	17,000								

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

FLAMELESS 115VAC HEAT GUNS & BLOWERS



Dayton



TRADESMAN HEAT GUNS

For Drying, Softening, Thawing and Intermittent Production Work. 3 Models

300-500°F	500-750°F	750-1000°F
\$35.85	\$39.11	\$48.03

PRODUCTION HOT AIR BLOWERS

For Continuous Use in Spot Drying or Heating on Production Lines. 3 Models

300-400°F	500-600°F	700-800°F
\$46.26	\$48.71	\$63.73

TRADESMAN HEAT GUNS—Make fast work of softening vinyl and asphalt floor tile, drying paint, thawing pipes—and doing a multitude of other jobs, including intermittent production work. All models have dependable 115VAC, 60 Hz motors and deliver quick, safe, flameless heat. Equipped with adjustable air intake louvers for matching temperatures to the particular work requirements, plus 3-position AC switch for heat-off-cool air. Detachable stand included. Heavy-duty 8 ft. cord (14-3S on 1000°F model, 16-3S on other units). Dayton brand.

PRODUCTION HOT AIR BLOWERS—Provide a concentrated flow of heat up to 800°F for drying (inks, paints, fabrics, washed parts, etc.) and heating (plastic molding, sealing, shrinking, etc.). Adjustable 2" dia. nozzle directs stream of heat exactly where needed. Blowers are mounted on a sturdy 4½ x 5" adjustable metal base for easy attachment in any position to production machines, heat shrink tunnels, work benches, etc. All models have 115VAC, 60 Hz, shaded pole motor, 3-way switch for off-cool air-heat, and 8 ft. 3-cond. cord. Dayton brand.

	Temperature Range	Amps at 115V	Approx. Air Velocity, FPM	Approx. Air Volume, CFPM	Stock No.	Retail	Each	Shpg. Wt.
Tradesman Heat Guns	300-500°F	10	3000	35	2Z387	\$51.22	\$35.85	4
	500-750	14	3000	35	2Z045	55.87	39.11	4
	750-1000	20	3000	35	2Z046	68.62	48.03	4
Production Heat Blowers	300-400	10	1600	40	2Z788	66.08	46.26	7½
	500-600	15	1600	40	2Z789	69.58	48.71	7½
	700-800	18	1600	40	2Z790	91.04	63.73	7½

REPLACEMENT HEAT ELEMENTS FOR ABOVE UNITS

TRADESMAN HEAT GUNS					PRODUCTION HOT AIR BLOWERS				
Range, Degrees F	Amps at 115V	Stock No.	Retail	Each	Range, Degrees F	Amps at 115V	Stock No.	Retail	Each
300-500°F	10	2Z388	\$7.43	\$5.20	300-400°F	10	2Z791	\$9.71	\$6.80
500-750	14	2Z074	7.43	5.20	500-600	15	2Z792	13.19	9.23
750-1000	20	2Z075	10.49	7.34	700-800	18	2Z793	14.52	10.16



PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you phone Grainger's for the equipment or supplies you want to pick up. Our people can have your merchandise ready to go when your truck arrives.

TRADESMAN DUAL-HEAT SOLDERING GUN

Provides 250 Watts Heat for Big Jobs and
175 Watts Heat for Small Electrical Work
High Impact, Heat Resistant ABS Frame

Handles practically any soldering job encountered at the job site or in the home workshop. Provides instant heat—melts solder in less than 5 seconds. High impact, heat resistant ABS frame is crack resistant and non-burning for safety and durability. Tip connectors are easy-cleaning to maintain peak efficiency. Balanced construction, easy-grip handle. Gun rests on back plate when not in use—tip points up, away from work surface. Has spot light to light up work area. Operates on 2.5 amps, 115/125V, AC only. Trigger-type, 3-position AC switch (Off-175W-250W). 6½ ft. 2-conductor cord set. Meets Federal Specification W-S-564A, Type 1, Class 1. UL and CSA listed. Net wt. 3 lbs. Shpg. wt. 3½ lbs.

No. 22777. Dayton Dual-Heat Soldering Gun.
Retail \$16.95. Each.....\$14.40



\$14.40

REPLACEMENT SOLDER TIPS FOR No. 22777

Type Tip	Stock No.	Retail	Each	Wt.
Soldering	22785	\$0.93	\$0.79	4 oz.
Cutting	22786	.93	.79	4 oz.
Smoothing	22787	1.14	.96	4 oz.

ROSIN and ACID CORE SOLDER — ONE LB. SPOOLS



Either Type
\$3.74
Lots 5

Rosin and acid core solder alloyed of quality tin and lead to high 40/60 ratio. Acid core solder contains fast-acting, efficient flux for all general purpose work. Rosin core solder makes trouble-free solder joints in radio, TV and similar work. Cartoned in 1 lb. spools. Alpha brand.

Type	Ga.	Mfrs. Model	Stock No.	Retail	Each	Lots 5 Asst'd.	Shpg. Wt.
Rosin Core	13	11406	22173	\$5.76	\$4.03	\$3.74	1½
Acid Core	11	12406	22174	5.76	4.03	3.74	1½

CARBIDE-TIPPED ELECTRIC ENGRAVER

For permanently marking dies, molds, tools, parts, sporting goods, glass, jewelry and hundreds of other items in the shop or at home. Permanently lubricated, 115V, 60 Hz, AC only, reciprocating motor delivers up to 7200 strokes per minute. Stroke can be varied from light to heavy by simply turning adjustment knob at back of tool. Equipped with tungsten carbide engraving tip to provide sharp, clean lines. High-impact plastic housing. Double-insulated. 6 ft., 2-cond. cord set. UL listed. Wt. 13 oz.

No. 22557. Retail \$8.95. Each.....\$5.96



\$5.96

SHOCK ☒ GUARD
DOUBLE-INSULATED

DAYTON POWER TOOL SAFETY & PERFORMANCE STANDARDS

POWER TOOL INSTITUTE SEAL



Assures buyer of these important safety standards:

- (1) Every motorized tool has been inspected under power.
- (2) Every tool has a grounding system or is double-insulated for operator's protection.
- (3) Every tool includes instructions for safe operation.

All Dayton Portable Electric Power Tools, UL and CSA listed, meet these PTI standards.

OCCUPATIONAL SAFETY & HEALTH ACT

Dayton portable power tools are built with an approved system of double insulation as established by UL—and thus comply with OSHA which says, in part:

"Portable tools covered by (c), (d) and (e) of this subdivision which are protected by an approved system of double insulation, or its equivalent, need NOT BE GROUNDED."

JOB-MATCHED POWER TOOLS

Three lines are offered—each engineered and constructed to provide full power performance, peak job efficiency and long service life.
Production Tools—For rugged, day-after-day continuous mfg. or heavy construction uses.
Tradesman Tools—For the professional who demands reliable, efficient performance daily.
Workshop Tools—For the handyman, main shop or craftsman who wants an economical general-purpose tool for intermittent use.

UL AND CSA LISTING



Dayton portable power tool have Underwriter's Lab and Canadian Standards Association listing. (except Heat Guns)

LIFETIME LIMITED WARRANTY

See Limited Warranty Policy in Index
Dayton tools are warranted to the original user for the life of the product. Limited warranty backed up by field service repair stations nationwide.

PORTABLE GAS TORCHES & SOLDERING GUNS

Dayton BUTANE GAS TORCH

2300°F Adjustable Flame

\$4.42 Dayton Butane Torch provides maximum burning power at a minimum cost. Lots 4. Widely used for sweating tubing joints, lead melting, soldering, thawing, metal forming, etc. Butane fuel releases 23% more BtuH's per unit of gas than propane—lasts longer, too. 2300°F flame. Instant lighting. Easy flame adjustment. Operates in any position. Torch consists of general purpose head and disposable 14.11 oz. fuel tank (No. 2Z131) with self-sealing valve. Dayton brand. Wt. 2 lbs.

No. 2Z130. Dayton Butane Torch. Retail \$6.80. Each \$4.77; lots 4, \$4.42



EXTRA TANK OF DAYTON BUTANE

No. 2Z131. 1½ lbs. Retail \$2.30. Each.....\$1.61

TURNER PROPANE GAS TORCH

2300°F Pencil-Point Flame. Brass Valve Assembly

\$8.40 Use to solder, sweat copper tubing, thaw frozen pipes, heat asphalt tile, light fires, repair utensils, loosen bolts, etc. in homes, shops, laboratories, and on the farm. Has precision-machined forged brass valve assembly that is UL listed, plus large 14.1 oz. propane fuel tank that will give 12 to 16 hours of burning service. Accepts No. 1Z690 or other standard size replacement tank. 3" dia., 17" high overall. Turner Brand. (HT 555). Shpg. wt. 2¾ lbs.

No. 2Z168. Gas Torch. Retail \$12.56. Each \$9.05; lots 6.....\$8.40



TURNER 7-PC. PROPANE TORCH KIT

For heating or melting jobs. Includes two burner tips, chisel-point soldering tip, flame spreader, spark lighter, 14.1 oz. propane tank and metal chest. 10½" W x 3 H x 6" D. UL listed. Turner brand (HT 555). Shpg. wt. 4 lbs.

No. 1Z896. Turner Propane Torch Kit. Retail \$19.44. Each \$13.40; lots 6.....\$12.45



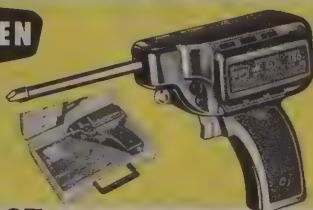
EXTRA TANK OF TURNER PROPANE

No. 1Z690. 2 lbs. Ret. \$2.52. Ea. \$1.58; lots 6 \$1.47

3-RANGE SOLDER GUN KIT

25 to 450 Watt Range of Heat Power

WEN



\$15.97 Solders gutters and copper plumbing, as well as home wiring, printed circuits, etc. Use of high-temperature wire gives fast heating, up to 450 watts with reduced current draw. Separate interchangeable tips provide 3 heating ranges: 25-100W, 100-200W, 200-450W. Has shock-resistant housing with spotlight, trigger switch. 115V, 60 Hz. 2 amp surge, 1.2 amp working current. Kit includes: Soldering gun, 3 tips, roll of solder, instructions and plastic case. UL and CSA listed. Wen brand. (450K4). Shpg. wt. 4 lbs.

No. 2Z177. Retail \$23.95. Each.....\$15.97

ELECTRIC SOLDER GUN

130 & 250-Watt Models. Fast Heat

\$9.30
130W



WEN

Trigger-heat electronic soldering guns heat to working temperature in 3 seconds. Rigid tip lasts for years, fits into tightest corners. No. 1Z750 has nickel plated tip that remains tinned indefinitely. Tips easily removed. Sturdy, molded plastic handle and case are heat and shock resistant. Spring-return slide switch. Built-in spotlight. 6 ft. Prenex cord. UL listed. 115V, 60 Hz. Lightweight, easy to handle.

Max. Watts	Duty	Wen Model	Stock No.	Retail	Each	Shpg. Wt.
130	Light	199	1Z749	\$13.95	\$9.30	2¾
250	Heavy	250	1Z750	23.95	15.97	3

REPLACEMENT SOLDER TIPS FOR ABOVE

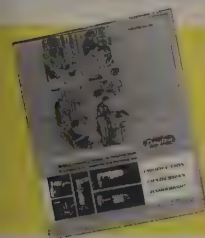
Fits Gun	Stock No.	Retail	Each	Lots 5
2Z177	2Z327*	\$3.00	\$2.40	\$2.00
1Z749	4X171	1.60	1.20	1.07
1Z750	4X172	.80	.64	.53

(*) One 200-450W tip.

FREE DAYTON POWER TOOL CATALOG

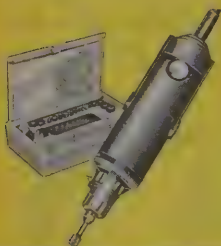
A comprehensive 24-page catalog on Dayton job-matched Production, Tradesman and Workshop portable electric tools—plus complete details on Dayton bench grinders and gas-powered chain saws.

Available from your local Grainger sales office/warehouse, or write to: W. W. Grainger, Inc., Dept. E5, 5959 W. Howard St., Chicago, Illinois 60648.



DREMEL 1/8" ELECTRIC HAND GRINDER KITS

Adjustable Speed and Single Speed Models. For Production Line, Maintenance and Hobby, Use



(Left)
**HEAVY DUTY
ADJUST. SPEED**
\$47.96
Complete Kit

(Right)
**MEDIUM DUTY
SINGLE SPEED**
\$35.96
Complete Kit



OVER 30-PC. ACCESSORY KIT FOR EITHER MODEL INCLUDES: $\frac{1}{8}$ and $\frac{1}{4}$ " collets, assorted high-speed steel cutters, emery and silicon grinding wheels and points, wire brushes, bristle brushes, felt polishing tip and wheel, sanding discs, drum sander and bands, mandrels, dressing stone, cutting wheels and collet key—all in self-storing polyethylene case.

Either unit handles a wide variety of grinding, drilling, carving, deburring, polishing and engraving jobs. Heavy duty model 22962 has adjustable speeds from 5,000 to 25,000 RPM with no load—plus 0.9 amp, 115V, 60 Hz motor, AC switch and all ball bearing construction. Medium duty grinder has single speed of 30,000 RPM with no load—plus 0.8 amp, 115V, 60 Hz motor,

AC/DC switch and oil impregnated bronze bearings. Features common to both models include sturdy shatterproof nylon housing; six foot 3 cond. cord set; tool weight 11 oz., overall tool size $1\frac{1}{8}$ diameter x $7\frac{1}{4}$ " long; $\frac{1}{32}$ and $\frac{1}{16}$ " collets; and all of the kit accessories described above, including the self-storing polyethylene carrying case. UL and CSA listed.

See accessories at end of tool section for Rotary Cutters, Grinding Points, Wire Brushes, Bristle Brushes and Drum Sanders for hand grinders

Size and Type	No Load RPM	Amps at 115V	Switch	Bearings	Chuck Type	Mfrs. Model	Stock No.	Retail	Each Kit	Shpg. Wt.
1/8" Heavy Duty	5 to 25,000	0.9	AC	All Ball	Collet	381	22962	\$59.95	\$47.96	2
1/8" Medium Duty	30,000	0.8	AC/DC	Bronze	Collet	271	22163	44.95	35.96	2

DREMEL ELECTRIC ENGRAVER

Marks Tools, Molds, Sporting Goods, Toys, Etc.
Solid Carbide Tip. 7200 Strokes/Minute 115VAC

\$11.95



Makes engraving easy as writing. Marks anything from hardened steel to delicate glassware; has endless uses in shop or home. Permanently marks dies, molds, tools, parts, sporting goods, firearms, photo equipment, garden tools, etc. Etches and decorates glass, personalizes jewelry.

Writes like a pencil; no skill needed. High-speed reciprocating motor makes 7200 cutting strokes per minute for smooth, even lines.

Calibrated stroke adjustment regulates engraving depth. Solid carbide tip is virtually wearproof, stays sharp indefinitely for fine quality engraving. Rugged high-impact nylon housing, contoured for easy grip. Built-in hanger permits convenient storage on wall near work area. Top-mounted On-Off switch.

Tool weighs only 7 ounces, measures $2\frac{1}{4}$ " wide, $\frac{6}{16}$ " high, $\frac{1}{16}$ " deep. 115V, 60 Hz. UL and CSA listed. Dremel brand (290). Wt. 2 lbs. No. 22204. Retail \$14.95. Each.....\$11.95

STOCK NO./PAGE NO.
CROSS-REFERENCE GUIDE
FOR THIS MOTORBOOK

Available from your Grainger salesman or counterman. Ask for Form 5S1943.

DREMEL CRAFT MOTO-SHOP

Saws, Sands, Drills, Carves, Routs, Polishes, Engraves, and More. Accessories Included

\$59.97



Complete power work shop for family hobbies and crafts. 15" jlg saw with 3450 RPM, 115V, 60 Hz, ball bearing rotary motor has power take-off for disc sanding attachment and flexible shaft. Rocker action saw outperforms conventional designs, cuts wood to $1\frac{1}{4}$ " thick, 18 ga. copper $\frac{1}{16}$ " steel, plastics, etc. Has 15" throat—blade cuts to center of 30" circle. Table raises, lowers tilts. Blade holder faces blade any of 3 directions. Blade guard. Rubber suction feet; bolt mounting not needed. Complete unit weighs 15 lbs. Includes cloth buffing wheel, arbor adapter 6 sanding discs with rubber backing pad, 12 pc accessory set for flexible shaft, plus polishing compound stick, 8 saw blades, 2 extra chucks for flexible shaft, and wrench. Dremel brand (572). Shpg. wt. 16 lbs.

No. 22251. Dremel Moto-Shop. Retail \$79.95. Each.....\$59.97



HEAVY-DUTY PORTABLE ELECTRIC TOOLS

\$217.00

Complete Kit



Kit includes two speed reversible hole hawg drill, pipe handle, chuck key and steel carrying case

1/2" HOLE HAWG DRILL KIT

Two Speeds: 1200 and 300 RPM, with Reverse
7.5 Amp, 115VAC Motor Delivers 3/4 HP to the Chuck and Work. Triple Reduction Gearing

Compact design for drilling between studs and joists and getting into other tight spots. Has high speed of 1200 RPM with no load for drilling with 1 3/8" and smaller bits, and low speed of 300 RPM with no load for 1 1/2" diameter and larger bits. Also has reversible feature for backing out bits. Powerful 7.5 amp, 115VAC, 60 Hz motor, coupled with triple reduction gearing, delivers up to 3/4 HP to the chuck and work—provides power and torque to handle up to 4 3/8" self feed bits. Ball and roller bearing construction. External brush caps. Capacity: 1 3/8" in wood, 5/16" in steel at high speed; 4 3/8" in wood, 1/2" in steel at low speed. Spindle size 5/8"-16. Ten foot 3-cond. cord set. Two position pipe handle, three position spade handle. Tool length 6 3/8", weight 10 1/2 lbs. UL and CSA listed. Milwaukee brand (1676-1). Shpg. wt. 24 lbs.

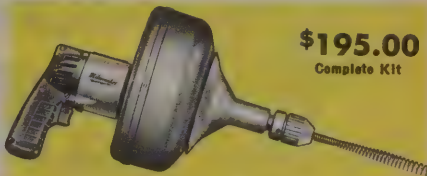
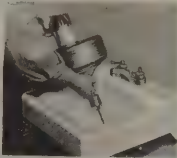
No. 22965. Complete Milwaukee Hole Hawg Kit.....\$217.00

DRAIN CLEANER KIT

With 0 to 500 RPM Trigger Speed Control and 1.85 Amp, 115V AC Reversing Motor

Unit cleans out sink and toilet installations, eliminates removing traps or clean out plugs. Variable speeds from 0 to 500 RPM lets operator start slowly to work pass cross bars, then run at whatever speed is necessary to remove stoppage. Reversing motor permits cable spinning in either direction for breaking up clogged area, freeing jammed hooks in wastelins up to 2" ID. Large drum holds up to 35 ft. of 13/32" innercore drop head cable. Equipped with Jacobs chuck, AC trigger switch, and reversing switch. Tool length 17", wt. 9 3/4 lbs. UL and CSA listed. Milwaukee brand (0567-1). Shpg. wt. 29 lbs.

No. 22738. Each.....\$195.00



\$195.00

Complete Kit

KIT INCLUDES

Drain cleaner tool, 1/4" x 25 ft. steel cables, 1/4" repair hook, cable guide holder and catalog, and steel carrying case.



\$114.00



INCLUDED WITH TOOL

1/4" hex magnetic socket, 1/4 sq. x 2" socket driver and 1/4-1/8-3/16-7/16 locators

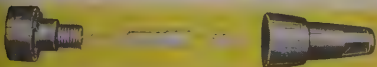
REVERSIBLE SCREWDRIVER

With 0 to 2500 RPM Trigger Speed Control

Has powerful 4.5 amp, 115V AC motor for driving fasteners in metal or fastening wood to metal. Capacity: No. 12 screws in 1/2" steel. Depth adjustable in 1/4" increments from outside control. Clutch engages when pressure is applied, disengages when pressure is released or when locator contacts work surface. Lockable AC trigger switch plus reversing switch. Bit shank 1/4" hex, spindle offset 3/4". Tool length 9 1/2", wt. 3 3/4 lbs. UL and CSA listed. Milwaukee brand (6798-1). Shpg. wt. 5 lbs.

No. 22735. Reversible Screwdriver.....\$114.00

DRYWALL CONVERSION KIT FOR SCREWDRIVER ABOVE



Fits No. 22735 screwdriver for fastening drywall to metal or wood studs. Kit includes bit housing and locator sleeve for magnetic bit holder. Milwaukee brand (49-221520). Shpg. wt. 3 oz.

No. 22744. Drywall Conversion Kit.....\$2.80

CONTRACTOR, DEALER & QUANTITY PRICES AVAILABLE ON MILWAUKEE POWER TOOLS. CONTACT YOUR GRAINGER SALESMAN OR NEAREST GRAINGER ADDRESS FOR DETAILS



HEAVY-DUTY PORTABLE ELECTRIC TOOL



1/4" DRILL 3/8" DRILL
\$74.00 \$95.00

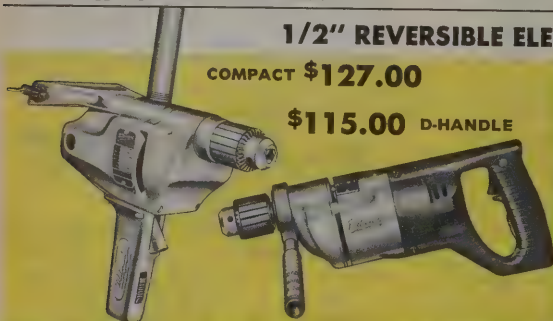
1/4 & 3/8" COMPACT DRILL

With Trigger Speed Control & Reversing Switch

Engineered and built to give dependable performance and long life under the most severe operating conditions. Feature permanently lubricated ball bearings, heat treated nickel-alloy steel gears, hardened shafts and heavy duty Milwaukee-built AC motors for delivering 1/2 HP. Cast aluminum housing with pistol-grip handle of durable thermoplastic. Trigger speed control for matching drilling speed to the work. Reversing switch is located above trigger switch. Jacobs industrial geared chuck. UL, CSA listed.

Chuck Size	No-Load RPM	Amps at 115V AC	Gear Train	Switch	Bit Cap. in Steel	Tool Length	Tool Wt.	Mfrs. Model	Stock No.	Each	Shpg. Wt.
1/4"	0 to 2500	3.0	Single	AC	1/8"	8 3/8"	3 1/2	0102-1	22724	\$74.00	4
3/8"	0 to 1000	3.25	Double	AC	3/8"	9 1/2"	4	0222-1	22725	\$95.00	5

(*) With Trigger Speed Control and reverse.



1/2" REVERSIBLE ELECTRIC DRILLS

COMPACT \$127.00

\$115.00 D-HANDLE

Large capacity drills for rugged, continuous-duty work. Gear drives are made of heat-treated, helical-cut alloy steel. Hardened drive shafts run on self-lubricating ball and roller bearings. Powerful Milwaukee-built AC/DC motors deliver maximum power at the chuck. Reversing switch is located below trigger switch. Jacobs industrial geared key-type chuck. Model 22727 is cast aluminum throughout, has removable pip and spade handles. Model 22728 has cast aluminum housing with glass reinforced nylon handle, plus 360° adjustable side handle. UL and CSA listed.

Chuck Size & Drill Type	No-Load RPM	Amps at 115V AC/DC	Gear Train	Switch	Bit Cap. in Steel	Tool Length	Tool Wt.	Mfrs. Model	Stock No.	Each	Shpg. Wt.
1/2" Compact	450	6.0	Triple	AC/DC	1/2"	12 1/4"	9 1/2	1650-1	22727	\$127.00	12
1/2" D-Handle	600	4.0	Double	AC/DC	1/2"	14 1/8"	6 1/4	1001-1	22726	\$115.00	8 1/2



**Electrician's
\$140.00**

RIGHT-ANGLE DRILL KITS

For Close-Quarter Drilling by Electricians, Plumbers and Others. 1/2" Reversible Drills

For drilling between joists, studding, etc. Right angle drive unit adds two speeds to the original speed of the drill—one speed is higher for small hole drilling, the other speed is lower for large dia. wood boring. Head assembly and side handle swivel 360°, can be locked in any position. AC/DC switch. Drills have all of the top quality heavy duty construction features found in No. 22726 1/2" reversible drill described above. UL and CSA listed.

KITS INCLUDE: Heavy duty, 500 or 600 RPM 1/2" reversible drill, reversing right angle drive wrench, chuck remover bar, side handle and steel carrying case.

Drill Kit Type	No-Load RPM, Drill Only	No-Load RPM With Right Angle Drive Low	No-Load RPM With Right Angle Drive High	Amps at 115V AC/DC	Gear Train	Bit Cap. in Steel	With Right-Angle Drive Tool Length	Tool Wt.	Mfrs. Model	Stock No.	Each (Kit)	Kit Shpg. Wt.
Electrician's	600	400	900	4.0	Double	1/2"	16 1/4"	8 1/4	3002-1	22728	\$140.00	18
Plumber's	500	335	750	4.0	Triple	1/2"	16 1/4"	8 3/4	3102-1	22729	\$150.00	18

CONTRACTOR, DEALER & QUANTITY PRICES AVAILABLE ON MILWAUKEE POWER TOOLS. CONTACT YOUR GRAINGER SALESMAN OR NEAREST GRAINGER ADDRESS FOR DETAILS.

for CONTRACTOR and INDUSTRIAL NEEDS



\$140.00
Complete Kit

KIT INCLUDES

Hammer-drill with depth gauge, removable side handle and rubber dust shield—plus 3/16-1/4-3/8-1/2" diameter percussion carbide-tip bits and steel carrying case



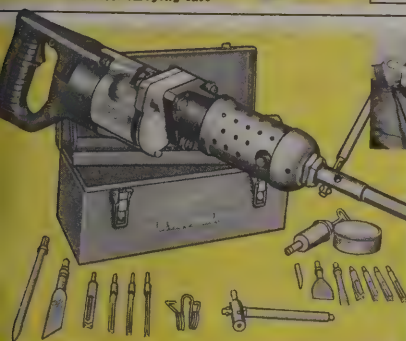
3/8" HAMMER-DRILL KIT

Trigger Speed Control. Speeds of 0 to 2500 RPM

Delivers 50,000 blows per minute at 2500 RPM for drilling 11/64 to 9/16" anchor holes in concrete with percussion carbide-tip bits. Drills up to 1/4" in steel and 1/2" in wood at 2500 RPM with conventional drilling action and standard drill bits. Has powerful 4.5 amp, 115V AC motor with high velocity fan cooling, helical-cut gears, lockable AC trigger switch and geared chuck. Tool length 11", wt. 4 1/2 lbs. UL, CSA listed. Milwaukee brand (5397). Shpg. wt. 14 lbs.

No. 2Z732. Each.....\$140.00

(Left) Slide-shift action of fluted collar permits easy change from hammering with rotation to conventional drilling.



3/4" HAMMER KIT

For Drilling, Chipping, Channelling, Scaling, Chiseling & Tuck Pointing

\$325.00
Complete Kit

Delivers 3000 blows per minute for handling a variety of concrete and

masonry work. Hammer blows are forward only; recoil mechanism eliminates jolting action. Tool is perfectly balanced, easy to handle. Has powerful 4.0 amp, 115V AC/DC motor; ball and roller bearings; AC/DC trigger switch. Accepts star drills up to 1 1/8" dia. Tool length 18", weight 11 lbs. UL and CSA listed. Milwaukee brand (5382). Shpg. wt. 29 lbs.

KIT INCLUDES 3/4" hammer with star drill chuck, drift pin and chisel retainer spring—plus one bull point, 3 chisels, 8 assorted star drills, grease gun, grease and steel carrying case.

No. 2Z731. 3/4" Hammer Kit.....\$325.00

3/4 & 1 1/2" ELECTRIC ROTARY HAMMER KITS

For Hammering with Rotation, Hammering Only, Conventional Drilling. No Oil—Grease Periodically



3/4" HAMMER
\$270.00

KIT INCLUDES

3/4" rotary hammer, A taper adapter, drift key, auxiliary side handle, depth gauge, dust shield, lubricant, 6 A taper bits and steel case.



1 1/2" HAMMER
\$415.00

KIT INCLUDES

1 1/2" rotary hammer, pipe handle, lubricant, one bull point, 4 chisels, A taper chuck, 6 A taper bits, drift pin and steel carrying case.



use with percussion carbide bits for drilling in concrete and masonry; with percussion core bits for conventional bits to handle a multitude of drilling jobs; or with hammer tools for chiseling, channelling, chipping, etc. Hammer has

heavy duty mechanism for long service life. Ball and roller bearings, heat treated gears, hardened shafts. Powerful air-cooled 115V AC/DC motors. AC/DC switch. Require only periodic greasing (no oil). UL and CSA listed.

Size	No-Load RPM	Blows per Minute	Amps at 115V AC/DC	Maximum Hammering In Concrete	Capacity Core Drilling	Tool Length	Tool Wt.	Mfrs. Model	Stock No.	Each (Kit)	Kit Shpg. Wt.
3/4"	1000	2500	6.0	3/4"	—	18 3/8"	10	5357	2Z733	\$270.00	22
1/2"	600	3250	10.0	1 1/2"	2 1/2"	18	19 3/4"	5315	2Z734	\$415.00	51

CONTRACTOR, DEALER & QUANTITY PRICES AVAILABLE ON MILWAUKEE POWER TOOLS. CONTACT YOUR GRAINGER SALESMAN OR NEAREST GRAINGER ADDRESS FOR DETAILS



HEAVY-DUTY PORTABLE ELECTRIC TOOLS



\$121.00
Complete Kit



KIT INCLUDES

Two-speed Sawzall, 11 Sawzall blades for wood and metal, socket wrench and holder, extra blade clamp and screw, and metal carrying case.

TWO-SPEED SAWZALL KIT

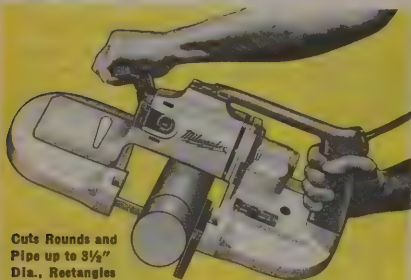
Cuts at 2400 Strokes Per Min. for Sawing Wood and 1700 Strokes Per Min. When Cutting Metals



Cuts any shape in sawable materials — also make plunge cuts. Rugged reciprocating mechanism (only major moving parts) with stands thrust loads. Heavy-duty 4.0 amp AC/DC motor. Two speed switch, AC/DC trigger switch. Cast-aluminum housing. $\frac{3}{4}$ " stroke. Tool length 16", wt. 7 lbs. UL, CSA listed. Milwaukee brand (6511). Shpg. wt. 16 lbs.

Extra Blades—See Index Under Blades, Reciprocating

No. 2Z730. Sawzall Kit.....\$121.00



Cuts Rounds and Pipe up to $\frac{3}{4}$ " Dia., Rectangles up to $\frac{3}{4}$ x $\frac{1}{2}$ "



\$284.00
Complete Kit

KIT INCLUDES

Two-speed band saw, one high-speed steel blade and metal carrying case.

TWO-SPEED BAND SAW KIT

Powerful 4.0/6.8 Amp Milwaukee AC/DC Motor Operates Blade at No-Load Speeds of 200 and 250 SFPM. Grease Lubricated—No Oiling Needed

Versatile tool saws metal, plastic, wood and practically any other material. Cuts to within 1" of floor, ceiling or wall. Gearing design incorporates alloy bronze helical gears, ground steel worm gear and final chain and sprocket reduction for long life and smooth operation. Gear drive mechanism is lubricated with grease — no oiling required. Other features include needle bearing blade guides; cast-aluminum frame with glass reinforced nylon handle; up-front T handle; and two-speed AC/DC trigger switch. Tool length 20", wt. 16 lbs. UL and CSA listed. Milwaukee brand (6226). Shpg. wt. 34 lbs.

No. 2Z739. Band Saw Kit.....\$284.00

EXTRA METAL-CUTTING BAND SAW BLADES

Heavy duty type for cutting a wide range of materials. Sold in packages of 1 or 3. 6-10 oz.

Teeth Per In.	Steel Blade	Mat'l. Thick Cutting Range	No. in Pkg.	Stock No.	Each (Pkg.)
10	Carbon	$\frac{3}{16}$ - $\frac{3}{4}$ "	3	6X020	\$6.90
14	Carbon	$\frac{1}{8}$ - $\frac{1}{2}$ "	3	6X021	6.90
14	Hi-Speed	$\frac{3}{16}$ - $\frac{1}{2}$ "	1	6X022	7.40



\$165.00
Less Vacuum Bag



No. 6X312 VACUUM BAG KIT.....\$10.00 EACH

3 x 24" BELT SANDER

Belt Drive Requires No Gear Maintenance or Oil. 9.5 Amp Motor. Ball Bearing Construction

Has powerful 9.5 amp, 120VAC motor to drive the continuous sanding belt at 1700 sfpm with no load. Excellent tracking qualities plus simple, positive adjustments and easy-to-operate belt removal arrangement. Positive brush stop prevents spring from damaging commutator. All ball bearing construction. Supplied with one 3 x 24" 120 grit sanding belt. Fast conversion to dustless sanding with No. 6X312 vacuum bag kit. Net wt. 15 $\frac{3}{4}$ lbs. UL and CSA listed. Milwaukee brand (5900). Shpg. wt. 17 lbs.

Extra sanding belts (3 x 24")—See index under Sandpaper

No. 2Z963. Belt Sander.....\$165.00

VACUUM BAG KIT FOR BELT SANDER

Includes vacuum bag, rear motor housing cover, bolt, vacuum heel, gasket. Installs in minutes. Milwaukee brand (48-09-0100). Wt. 1 $\frac{1}{4}$ lbs.

No. 6X312. Vacuum Bag Kit.....\$10.00

CONTRACTOR, DEALER & QUANTITY PRICES AVAILABLE ON MILWAUKEE POWER TOOLS. CONTACT YOUR GRAINGER SALESMAN OR NEAREST GRAINGER ADDRESS FOR DETAILS

for CONTRACTOR and INDUSTRIAL NEEDS

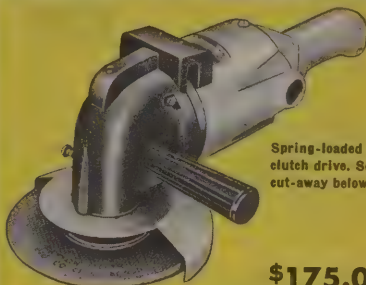


7" SUPER SANDER-GRINDER

Has Extra Powerful 15 Amp, 3 HP, 120V Motor to Drive Disc at 6000 RPM. Spring-Loaded Clutch Drive. For Automotive & Industrial Use

Provides 1000 more RPM than unit shown below for exceptionally fast removal of material on rough castings, automotive body work, etc. Efficient 15 amp, 3 HP, 120V motor design minimizes brush wear. External brush holders permit inspection and replacement of brushes without taking unit apart. Spring-loaded clutch drive won't slip under load, also prevents backlash shock. Large fan and exhaust ports direct air over disc and work area. Also features ball bearing mounted rotor assembly, two-position side handle and heavy duty strain-relief 14 gauge cord set. Spindle thread size, $\frac{5}{8}$ "-11. Tool length 16 $\frac{1}{2}$ ". Net wt. 12 $\frac{1}{4}$ lbs. UL and CSA listed. Milwaukee brand (6088). Shpg. wt. 16 lbs.

No. 2Z964. 7" Sander-Grinder, Each.....\$175.00



Spring-loaded clutch drive. See cut-away below.

\$175.00

Less Guard and Wheel

7 & 9" SANDER-GRINDER

For Automotive and Industrial Applications
Powerful 13 Amp, 2 $\frac{1}{4}$ HP, 120V Motor Drives Disc at 5000 RPM. Spring-Loaded Clutch Drive

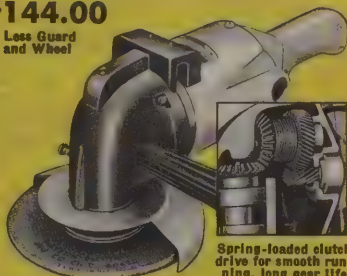
Designed and built primarily for continuous-duty on rugged grinding jobs such as smoothing rough castings or surfacing concrete—also is a handy tool for use with sanding discs and cup wire brushes for handling other types of finishing work. Features ball and roller bearings, external brush holders, button-type spindle lock, two-position side handle and AC/DC switch. Standard $\frac{5}{8}$ "-11 thread. Tool length 16 $\frac{1}{2}$ ", wt. 12 $\frac{1}{4}$ lbs. UL and CSA listed. Milwaukee brand (6082). Shpg. wt. 15 lbs.

No. 2Z736. Each.....\$144.00



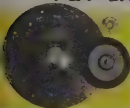
\$144.00

Less Guard and Wheel



Spring-loaded clutch drive for smooth running, long gear life

7 & 9" BACKING DISC ASSEMBLY



Includes phenolic disc, rubber pad and disc nut. Use with sanding discs. Wt. 11 to 15 oz.

Size	Max. RPM	Stk. No.	Each
7"	7000	2Z742	\$9.00
9"	7000	2Z743	10.50

7 & 9" STEEL SAFETY GUARDS



When using No. 2Z736 tool with grinding wheels, guard must be used for OSHA compliance.

Size	Stock No.	Each	Wt.
7"	2Z740	\$9.00	1
9"	2Z741	10.50	1

7" ELECTRIC POLISHER

For Continuous, Heavy Duty Use. Reliable 9.0 Amp, 115V Motor Operates Pad at 1750 RPM

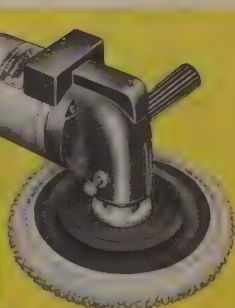
A lightweight, perfectly balanced polisher that makes continuous or hard-to-do polishing jobs less fatiguing. Unit has ball and roller bearings plus spring-loaded clutch drive to insure smooth running and increase gear life. Motor operates polishing pad at 1750 RPM with no load—an ideal speed for using with standard liquid polishes. AC/DC trigger switch. Cast-aluminum housing. Polisher includes side handle, rubber backing pad and disc nut for $\frac{5}{8}$ "-11 spindle, polishing pad. Tool length 4 $\frac{1}{2}$ ", wt. 9 $\frac{1}{4}$ lbs. UL and CSA listed. Milwaukee brand (5450). Shpg. wt. 16 lbs.

No. 2Z737. Each.....\$135.00



\$135.00

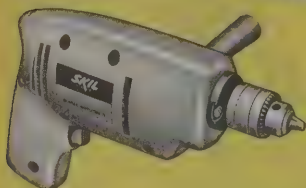
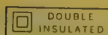
With Polishing Pad



CONTRACTOR, DEALER & QUANTITY PRICES AVAILABLE ON MILWAUKEE POWER TOOLS. CONTACT YOUR GRAINGER SALESMAN OR NEAREST GRAINGER ADDRESS FOR DETAILS

1/4 to 1/2" ALL-PURPOSE ELECTRIC DRILLS

Single Forward Speed Models, Variable-Speed Reversible Drive-R-Drills & 1/2" Reversible Unit



SKIL

**1/4" SINGLE
SPEED DRILL**
\$15.29

1/4" DRIVE-R-DRILL
\$33.29

**3/8" SINGLE
SPEED DRILL**
\$17.99

**1/2" SINGLE
SPEED DRILL**
\$26.99

1/4, 3/8, & 1/2" DRILLS

Single Speed Models Plus 1/4" Drive-R-Drill

Low cost, lightweight drills with power for drilling holes in concrete, metal, wood, etc. Drive-R-Drill, with adjustable speed control, also handles most driving jobs normally encountered. Features include Universal 115V motor, ball thrust bearings, helical gears (single reduction except 1/2" model double reduction), AC trigger switch with locking button, geared chuck and key. The 3/8" and 1/2" models also have oversize fan for cool operation and removable side handle. All models are double-insulated with 2-cond. cord and two-prong plug. Length 9 to 10 3/4". UL and CSA listed. Net wt. 2 3/4 to 3 3/4 lbs. Shpg. w 3 to 4 lbs.

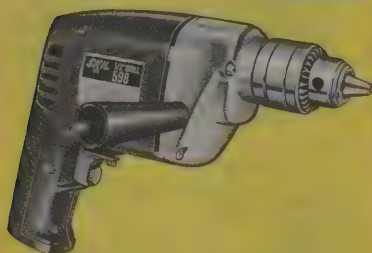
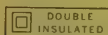
Drill access.—See Index under Drill Attachments, Drill Bits

Size	No Load RPM	Amps at 115V	Stock No.†	Retail	Each
SINGLE FORWARD SPEED					
1/4"	2100	2.5	2Z427	\$16.99	\$15.29
3/8"	1300	2.8	2Z428	19.99	17.99
1/2"	750	3.0	2Z429	29.99	26.99

DRIVE-R-DRILL (Variable Speed Reversible)

1/4"	0-2100	2.7	2Z465	\$36.99	\$33.29
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(†) Skil Models 503, 560, 541 and 456 respectively.



SKIL

**3/8" COMPACT,
DRIVE-R-DRILL**
\$44.96

**1/2" COMPACT,
DRIVE-R-DRILL**
\$51.26

3/8 & 1/2" DRIVE-R-DRILLS

Variable Forward and Reversing Speeds

Drills are compact without sacrificing drilling or driving performance. Cool-running universal 115V motor and double-reduction gears deliver 0 to 750 RPM no-load driving torque on 3/8" model; 0 to 500 RPM no-load driving torque on 1/2" unit. Multi-thrust bearing on chuck spindle for heavy-duty drilling. Also feature AC trigger-type switch with locking button, precision helical gears, geared chuck and key, and removable side handle. Both models are double insulated for protection against electrical shock, and are equipped with 2-cond. cord set. Drilling capacity in steel: 3/8" or 1/2". Overall tool length 9 5/8" for 2Z466, 9 3/4" for 2Z467. Net wt. 3 3/4 lbs. Shpg. wt. 4 lbs. UL and CSA listed.

Drill access.—See Index under Drill Attachments, Drill Bits

Size	No Load RPM	Amps at 115V	Stock No.†	Retail	Each
3/8"	0-750	3.2	2Z466	\$49.95	\$44.96
1/2"	0-500	3.2	2Z467	56.95	51.26

(†) Skil Models 597 and 598 respectively.



SKIL

**1/2" STANDARD
REVERSIBLE**
\$71.96

1/2" REVERSIBLE DRILL

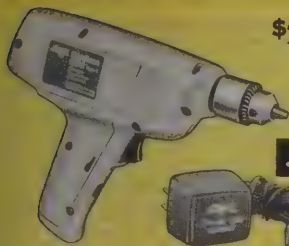
Single Forward & Reversing Speed. Heavy-Duty Delivers extra power and torque for drilling in concrete, metal, masonry, hard wood, etc. Built to withstand heavy work loads. Drills 1" in hard woods, 1 1/2" in steel. Drives hole saws and all self-feeding bits. Powerful 4.0 amp., universal, 115V motor and precision helical gears drive chuck at 500 RPM with no load. AC trigger-type, spring-loaded switch with locking button. Geared chuck and key. Rear spade handle and removable top handle for easy handling and accurate drilling. 3-cond. cord set. Overall length 12 1/2". UL and CSA listed. Net wt. 6 1/2 lbs. Skil brand (542). Shpg. wt. 8 lbs.

Drill access.—See Index under Drill Attachments, Drill Bits

No. **2Z430**. Skil 1/2" Standard Electric Drill. Retail \$79.95. Each **\$71.96**

Get Delivery from Stock on over 95% of the Merchandise in this MotorBook

1/4 and 3/8" CORDLESS RECHARGEABLE DRILLS



\$22.49
1/4" Drill

SKIL

Powered by a Self-Contained, Rechargeable Power Pack. Include Plug-In Charger Unit

Lightweight, versatile tools for use anywhere because the power source is built in. Ideally suited for on-site work where electrical outlets are not accessible, or where electricity presents a possible hazard. Chuck is powered by a self-contained power pack—rechargeable hundreds of times. A charger is also included as standard equipment.

Drills operate at no-load speeds of 300 RPM. Reversing feature on 3/8" model provides added versatility for driving and removing screws. Also features ball thrust bearing and double reduction gears for extra power and durability to handle the tough jobs. Trigger-type switch with safety lock. Chuck key stores in handle. Skil brand.

Chuck Size & Drill Type	No-Load RPM	Bearings	Net Wt.	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
1/4" Non-Reverse	300	Ball Thrust	2 1/2	1701	2Z931	\$24.99	\$22.49	2
3/8" Reversible	300	Ball Thrust	2 1/2	2002	2Z879	39.99	35.90	2 1/4

TWO-SPEED JIG/SABRE ELECTRIC SKILSAWS

3000 or 4000 5/8" Strokes/Minute for Cutting Wood, Metal and Other Materials

\$44.99



SKIL

Has Adjustable Plate With Stops At 45, 90°

This two-speed saw performs rip cutting, cross cutting, scrolling and notching—even makes its own starting hole for pocket or plunge cuts. Universal 115V, 2.5 amp motor with AC trigger switch. Saw delivers 4000 strokes per minute for cutting wood, composition board and plastic—or 3000 strokes per minute for cutting ferrous and non-ferrous metals. Orbital cutting action saws on up stroke, clears cut on down stroke for faster cutting and extended blade life. Blower keeps sawdust off of cutting line. Beveled gears, ball thrust and cushion-mounted bronze bearings. 3-cond. cord set. Aluminum die-cast housing. Capacity: soft woods, 1 5/8"; hard woods, 1"; non-ferrous metals, 3/4"; mild steel, 1/2". Saw has a tilting foot with stops at 45° and 90°, and comes with a splinter-free cutting attachment. Furnished with a general purpose wood-cutting blade. UL and CSA listed. Overall length 8 1/4". Net wt. 4 3/4 lbs. Skil brand (524). Shpg. wt. 5 1/2 lbs.

Extra saw blades—See index under Blades

No. 2Z432. Skil Two-Speed Jig/Sabre Saw. Retail \$49.99. Each.....**\$44.99**

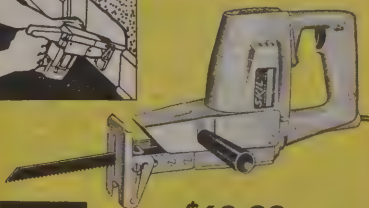
TWO-SPEED ELECTRIC RECIPROCATING SKILSAW

Delivers 1600 or 2000 Strokes/Minute for Cutting up to 6" Logs, 1/2" Thick Metal

This versatile tool cuts anything from thin plastic to 6" logs—handles tough rip cuts or intricate scroll work. High speed (2000 SPM) for cutting wood; low speed (1600 SPM) for cutting ferrous and non-ferrous metals. Adjustable four-position blade cuts flush along wall or floor. Other features include three-position not, double reduction gears, self-lubricating anti-friction bearings and three-position auxiliary handle. Powered by a 3.0 amp, 115V, 60 Hz motor with AC trigger switch. Die-cast aluminum housing. Three-wire cord and plug. Overall length 11 3/4". Comes with a general purpose wood-cutting blade. UL and CSA listed. Net wt. 4 1/2 lbs. Skil brand (577). Shpg. wt. 6 1/2 lbs.

Extra saw blades—See index under Blades

No. 2Z360. Skil Two-Speed Reciprocating Saw. Retail \$69.99. Each.....**\$62.99**



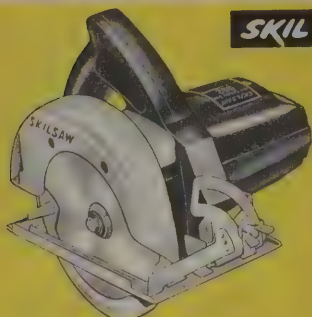
SKIL

\$62.99

LIFETIME LIMITED WARRANTY. Tools on these two pages are warranted to the original user for the life of the product. Tools found defective within 90 days of purchase will be replaced free; thereafter replacement parts only will be furnished. See Limited Warranty Policy in Index.

6½, 7¼ & 8¼" BUILDERS SKILSAWS

Ball and Needle Bearing Construction. All Models Cut 2x4's at 45° Angle



6½" Blade \$89.96 7¼" Blade \$98.96 8¼" Blade \$107.96

Professional-duty Skilsaws are built with these construction features: Push-button blade lock for securing saw shaft when changing blades. Vari-torque clutch to protect motor and gears if blade binds or jams in cut. Sawdust ejection chute for directing sawdust away from operator and cutting line. Ball and needle bearings for trouble-free performance. Telescoping lower guard which retracts automatically on angle cuts for bind-free starts. Combination-type nickel-alloy blade for rip and cross cuts. Helical gears for delivering cutting torque to blade. Angle and depth adjustment mechanism. Burnout protected AC/DC, 115V motor. ⅝" round arbor. Combination blade and wrench. 3-cond cord set, except No. 22431 6½" saw is double insulated with 2-cond. cord set. Die-cast aluminum housing. UL and CSA listed. Net wts. 11¼ 13½, 13¾ lbs. Shpg. wts. 13 and 15 lbs.

RIP FENCE FOR BUILDERS SKILSAWS

Quickly attaches to shoe for making rip cuts without drawing guide line. Adjustable for 0 to 5" wide cuts. Shpg. wt. 5 oz.

No. 4X199. Retail \$4.65. Each \$4.11

Size Blade	Cutting At 45°	Depth At 90°	No-Load RPM	HP	Amps. 115V	Double Pole Switch	Skil Model	Stock No.	Retail	Each
6½"	1½"	2½"	5800	2.0	10	AC/DC	552	22431	\$99.95	\$89.96
7¼"	1½"	2½"	5200	2¼	12	AC/DC	553	22063	109.95	98.96
8¼"	2½"	2½"	5200	2½	13	AC/DC	554	22064	119.95	107.96

6½ & 7¼" GENERAL-PURPOSE SKILSAWS

Cuts 1¾" or 1⅞" Deep at 45° Angle

For the home workshop enthusiast and many professional-duty building jobs. Quality construction features include vari-torque clutch for motor and gear protection if blade jams or binds in cut. Sawdust ejection chute. Depth and bevel controls. Universal 115V burnout-protected motor. Combination blade, blade wrench. Single pole AC safety switch helps prevent accidental starts.

SKILSAW 6½" is powered by a 1½ HP, 9 amp motor and delivers 6000 RPM with no load. Tool cuts up to 2¼" deep in lumber at 90°, and to 1¾" deep when set for cutting at a 45° angle. Spur gears. Ball and sleeve bearings. Comes with 3-cond. cord set. UL and CSA listed. Net wt. 8¾ lbs. Shpg. wt. 10 lbs.

SKILSAW 7¼" features a 1¾ HP, 10 amp motor that generates 5300 RPM with no load. Cutting capacity is 1⅞" in lumber at a 45° angle and 2¾" at 90°. Has heavy-duty quadrant and ribbed shoe for extra rigidity and cutting accuracy, plus blade exposure control. Spur gears. Ball and sleeve bearings. 3-cond. cord set. UL, CSA listed. Net wt. 9½ lbs. Shpg. wt. 11 lbs.

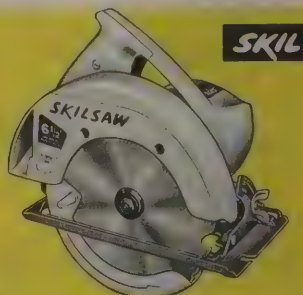
SKILSAW 7¼" DELUXE is powered by a 2 HP, 10 amp motor that delivers 5500 RPM with no load. Helical gears. Ball bearing and sleeve. Unit is double insulated with 2-cond. cord set. Has safety guard lift located by handle, plus safety guard stop to minimize blade exposure and safety switch to prevent accidental starts. Net wt. 9¼ lbs. Shpg. wt. 11 lbs.

Size Blade	HP	Skil Model	Stock No.	Retail	Each
6½"	1½	534	12830	\$37.99	\$34.19
7¼"	1¾	574	22562	39.99	35.99
7¼" Deluxe	2.0	559	22676	69.95	62.96

RIP FENCE FOR ABOVE SKILSAWS

Attaches to base for making rip cuts. Adjustable for 0 to 5" cuts. Wt. 5 oz.

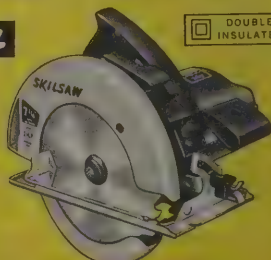
No. 4X198. Retail \$2.95. Each \$2.66



6½" Blade \$34.19 7¼" Blade \$35.99

SKIL

DOUBLE INSULATED



7¼" Blade Deluxe Model \$62.96

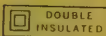
TWO-WAY ORBITAL SANDER

2.5 Amp Motor. 26¼ Square Inch Sanding Pad

For finishing wallboard seams, plastic, composition board, wood, etc. Select orbital action for fast stock removal—or straight-line action for exceptionally fine finishing results. Big 2.5 amp, AC only, 115V, 60 Hz motor powers sander at 4000 ¾" orbits per minute with no load. Lightweight for vertical or overhead use. Double-insulated for protection against electrical shock. Equipped with 2-cond. cord that eliminates need for adapter. Unit is supplied with one 3½" x 9" sanding sheet. UL and CSA listed. Net wt. 5½ lbs. Skil brand (490). Shpg. wt. 6 lbs.

No. 2Z675. Retail \$39.99. Each.....\$35.99

\$35.99



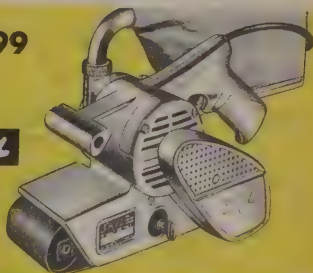
3 x 21" BELT SANDER

5.5 Amp Motor. Integral Dust Pickup Unit

Sands wood, composition board, metals and other materials fast and easy with professional results. Balanced design assures straight-line sanding with no swirls or scratches on the finished work. Dust pickup unit is an integral part of the housing. Powered by a ¾ HP, 5.5 amp, 115V, 60 Hz motor that maintains belt speed at 1000 ft. per minute, even under heavy pressure. Ball and lubricated bearings. Precision-cut gears with cog belt drive. Comes with 3 x 21" sanding belt. Length 12". AC trigger-type switch. 3-cond. cord set. UL and CSA listed. Net wt. 9 lbs. Skil brand (595). Shpg. wt. 10 lbs.

No. 2Z144. Skil 3" Dustless Belt Sander. Retail \$99.99. Each.....\$89.99

\$89.99



1/2 HP COMPACT ROUTER

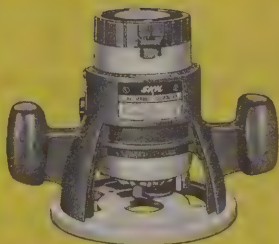
This versatile tool can rout, groove, dado, bead, mortise and rabbet. Makes decorative edging and moulding cuts—even on wood veneer and melamine. Has built-in spindle lock for easy bit changing, contoured handles for accurate control, and eye shield for added safety. Ball and impregnated bearing construction for long life in rugged use. 3.7 amp, AC only, 115V, 60 Hz motor operates spindle at 27,000 RPM. Height 7". 3-cond. cord set. UL and CSA listed. Net wt. ½ lbs. Skil brand (548). Shpg. wt. 5¼ lbs.

No. 2Z469. Retail \$44.99. Each.....\$40.49

\$40.49



No. 2Z470



ROUTER KIT. Includes straight and circular edge guide, ½ and ¼" straight bits, core box bit, rounding over bit. Skil brand (301120) 1 lb.

No. 2Z470. Retail \$17.30. Each.....\$15.57

LIFETIME LIMITED WARRANTY. Tools on these two pages are warranted to the original user for the life of the product. Tools found defective within 90 days of purchase will be replaced free; thereafter replacement parts only will be furnished. See Limited Warranty Policy in Index.

3½ & 5" MEDIUM-DUTY VISES

Designed for light industrial and home workshop use. Both units are built to high standards, amply proportioned and engineered for many years of rugged service. Feature a ¾" formed steel slide; replaceable serrated steel top jaws; built-in pipe jaws; a large round anvil; and 220° swivel base with positive lock. No. 2Z042 ½" vise also has a forming horn.

3½" Jaws

\$30.90

Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Stock* No.	Retail	Each	Shpg. Wt.
3½"	4"	3"	½-2"	2Z042	\$41.20	\$30.90	17
5"	5½"	3¾"	½-2½"	2Z473	75.90	56.93	45

*Wilton Models 643½ and 645 respectively.



No. 2Z042

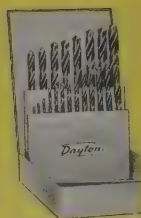
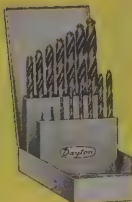
YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.

SEE WARRANTY INFORMATION ON PAGE 684

PRODUCTION HIGH SPEED STEEL DRILLS

Jobber Length Drills in All Sets
Except Stub Length in No. 4X779

Dayton



\$3.17

Lots 8
5 Pcs. 1/8 to 1/4"

\$6.94

Lots 8
13 Pcs. 1/16 to 1/4"

\$19.77

Lots 4
15 Pcs. 1/16 to 1/2"

\$17.53

Lots 4
21 Pcs. 1/16 to 3/8"

\$35.63

Lots 4
29 Pcs. 1/16 to 1/2"

Dayton high speed steel drills are made for commercial and industrial power drilling in all metals, plastics, wood, etc. Made of molybdenum tungsten high speed steel—heat treated and precision ground for hardness and accuracy. Black oxide finish lengthens life and holds lubrication, even at high speeds. Jobber length drills have a conventional 118° point. Stub drills

have a 135° split point for easy starts in sheet metal without center punching. Silver and deming drills are a popular choice of body shops, screw machine shops, etc. because of their 1/2" to 1" size range with 1/2" shank. Drill sets are supplied in folding metal case (except No. 4X779 in pouch) with sizes shown. Indv. drills in envelopes (except Silver & Deming in tubes).

HIGH SPEED DRILL SETS—FULL JOBBER LENGTH—118° POINT*

Drills In Set	Sizes In Inches	Stock No.	Retail	Each	Lots 4	Lots 8	Shpg. Wt.
5*	1/8, 1/4, 1/2, 3/4, 1"	4X779	\$5.20	\$3.43	—	\$3.17	2 oz.
13	1/16 to 1/2, incl. x 64ths	2X470	11.39	7.51	—	6.94	12 oz.
15	1/16 to 1/2, incl. x 32nds	2X471	32.42	21.39	\$19.77	—	2
21	1/16 to 1/2, incl. x 64ths	4X780	28.75	18.97	17.53	—	1
29	1/16 to 1/2, incl. x 64ths	6X001	58.42	38.55	35.63	—	3 1/2

(* 5-Pc. Set, No. 4X779, contains stub length drills with 135° split point.)



INDV. HIGH SPEED DRILLS—JOBBER LENGTH—118° POINT PRICED EACH—Sold Only In Pkgs. of 3 or 6 or Multiples Thereof

Size	Stock No.	Retail	PRICE EACH Lots 6	PRICE EACH Lots 36	Shpg. Wt., Ea.	Size	Stock No.	Retail	PRICE EACH Lots 3	PRICE EACH Lots 18	Shp. Wt., Ea.
1/16"	5X952	\$0.40	\$0.30	\$0.28	1 oz.	17/64"	5X972	\$1.25	\$0.93	\$0.87	1 oz.
5/64	5X953	.40	.30	.28	1 oz.	9/32	5X973	1.34	1.00	.93	1 oz.
3/32	5X954	.40	.30	.28	1 oz.	19/64	5X974	1.54	1.15	1.07	1 oz.
7/64	5X955	.42	.31	.29	1 oz.	5/16	5X975	1.65	1.23	1.15	1 oz.
1/8	5X956	.51	.38	.35	1 oz.	21/64	5X976	1.74	1.30	1.21	1 oz.
9/64	5X964	.51	.38	.35	1 oz.	11/32	5X977	1.74	1.30	1.21	1 oz.
5/32	5X965	.60	.45	.42	1 oz.	23/64	5X978	2.31	1.73	1.61	1 oz.
11/64	5X966	.62	.46	.43	1 oz.	3/8	5X979	2.40	1.80	1.68	2 oz.
3/16	5X967	.74	.55	.51	1 oz.	25/64	5X980	2.62	1.96	1.83	2 oz.
13/64	5X968	.82	.61	.57	1 oz.	13/32	5X981	2.77	2.07	1.93	2 oz.
7/32	5X969	.88	.66	.61	1 oz.	27/64	5X982	2.91	2.18	2.03	3 oz.
15/64	5X970	1.00	.75	.70	1 oz.	7/16	5X983	3.31	2.48	2.31	3 oz.
1/4	5X971	1.08	.81	.75	1 oz.	29/64	5X984	3.62	2.71	2.53	3 oz.
CARBIDE-TIPPED MASONRY DRILLS ARE LISTED ON NEXT PAGE. SIZES 3/16 to 3/4".						15/32	5X985	3.88	2.91	2.71	3 oz.
						31/64	5X986	3.97	2.97	2.77	3 oz.
						1/2	5X987	4.08	3.06	2.85	3 oz.



INDV. HIGH SPEED DRILLS—STUB LENGTH—135° SPLIT POINT PRICED EACH—Sold Only In Packages of 6 or Multiples Thereof

Stock			PRICE EACH		Shpg.	Stock			PRICE EACH		Shpg.
Size	No.	Retail	Lots 6	Lots 36	Wt., Ea.	Size	No.	Retail	Lots 6	Lots 36	Wt., Ea.
1/8"	5X988	\$0.51	\$0.38	\$0.35	1 oz.	3/16"	6X003	\$0.74	\$0.55	\$0.51	1 oz.
9/64	5X999	.51	.38	.35	1 oz.	7/32	6X004	.88	.66	.61	1 oz.
5/32	6X002	.60	.45	.42	1 oz.	1/4	6X005	1.08	.81	.75	1 oz.



INDV. HIGH SPEED DRILLS—SILVER & DEMING—1/2" SHANK

Size	Stock No.	Retail	Each	Lots 6	Shpg. Wt., Ea.	Size	Stock No.	Retail	Each	Lots 6	Shpg. Wt., Ea.
9/16"	5X989	\$8.62	\$6.46	\$6.03	6 oz.	13/16"	5X993	\$12.94	\$9.70	\$9.05	8 oz.
5/8	5X990	9.71	7.28	6.79	6 oz.	7/8	5X996	14.02	10.61	9.81	8 oz.
11/16	5X991	10.74	8.05	7.51	7 oz.	1	5X997	18.22	13.66	12.75	9 oz.
3/4	5X992	11.82	8.86	8.27	7 oz.						

Dayton**CARBIDE-TIPPED PERCUSSION DRILL BITS**

For High Speed Drilling in Concrete & Masonry. Heat Treated Alloy Steel Body & Shank

HAMMER-DRILL BITS

Round shank fits any make hammer-drill. Wt. 1 to 5 oz. Dayton brand.



Bit Dia.	Shank Dia.	Length	Stock No.	Retail	Each	Lots 6
3/16"	3/8"	3"	6X024	\$2.08	\$1.46	\$1.35
1/4"	1/2"	4"	4X899	2.08	1.46	1.35
5/16"	5/8"	4"	4X900	2.35	1.65	1.53
3/8"	3/4"	4"	4X901	2.98	2.09	1.94
7/16"	7/8"	6"	4X902	3.60	2.52	2.34
1/2"	1"	6"	4X903	4.03	2.82	2.62
9/16"	1 1/8"	6"	4X904	4.38	3.07	2.85
5/8"	1 1/4"	6"	4X905	4.90	3.43	3.19
3/4"	1 1/2"	6"	4X906	5.48	3.84	3.56

SINGLE-PIECE DRILL BITS

For Use With Milwaukee 1 1/2" Rotary Hammer



For use in drilling deep holes in concrete and masonry. No adapter necessary—3/16" hex x 2 3/8" long shank fits directly into nose of Milwaukee 1 1/2" rotary hammer (No. 22734, Mfrs. 5305). Shpg. wt. 1 1/2 to 5 1/2 lbs. Dayton brand.

Bit Dia.	Over- all Drilling Length	Max. Drilling Depth	Stock No.	Retail	Each	Lots 6
1/2"	16"	10 1/2"	6X032	\$18.58	\$13.01	\$12.08
5/8"	16"	10 1/2"	6X033	20.35	14.25	13.23
3/4"	23 1/2"	18"	6X034	27.53	19.27	17.89
7/8"	23 1/2"	18"	6X035	28.58	20.01	18.58
1"	23 1/2"	18"	6X036	30.75	21.53	19.99
1 1/8"	23 1/2"	18"	6X037	36.15	25.31	23.50
1 1/2"	23 1/2"	18"	6X038	55.40	38.78	36.01

DRILL GRINDING HOLDER

\$2.69 Sharpens drill bits from 3/32" to 1/2" diameter on wheel of bench grinder. Grinds old drills like new in four different drill point angles. Grinds twist drills up to 6" long. Aluminum construction. 4 oz. Mfr'd. by A. D. McBurney.

No. 1X665. Retail \$4.25. Each \$2.69

SOFT FRAME GOGGLE**\$1.52**

Lots 12

Soft, ventilated, clear plastic frame provides maximum eye protection with comfort, wide vision. Fits over prescription glasses, protects eyes from molten metal, sparks, chips, etc. Optically correct, distortion-free clear lens. Welshgard brand (1010). Shpg. wt. 6 oz.

No. 4X251. Retail \$2.57. Each \$1.75; lots 12, \$1.52

**A TAPER DRILL BITS**

For use with A taper chucks listed below. Recommended for shallow-hole drilling only. Wt. 1 to 11 oz. Dayton brand.



Bit Dia.	Over- all Drilling Length	Max. Drilling Depth	Stock No.	Retail	Each	Lots 6
3/16"	3 3/8"	1 3/8"	6X025	\$4.95	\$3.47	\$3.22
1/4"	4"	2"	6X026	4.95	3.47	3.22
5/16"	6"	4"	6X027	5.45	3.82	3.54
3/8"	6"	4"	6X028	5.63	3.94	3.66
1/2"	6"	4"	6X029	6.53	4.57	4.24
5/8"	6"	4"	6X030	8.78	6.15	5.71
3/4"	6"	4"	6X031	9.85	6.90	6.40

SINGLE-PIECE DRILL BITS

For Use With Dayton 1 1/2" Rotary Hammer



For use in drilling deep holes in concrete and masonry. No adapter necessary—3/16" hex x 2 3/8" long shank fits directly into nose of Dayton 1 1/2" rotary hammer (No. 22778). Shpg. wt. 1 to 6 1/4 lbs. Dayton brand.

Bit Dia.	Over- all Drilling Length	Max. Drilling Depth	Stock No.	Retail	Each	Lots 6
1/2"	16"	10 1/2"	6X129	\$20.70	\$14.49	\$13.46
5/8"	16"	10 1/2"	6X130	22.85	16.00	14.85
3/4"	22 1/2"	17"	6X131	30.15	21.11	19.60
7/8"	22 1/2"	17"	6X132	31.70	22.19	20.61
1"	22 1/2"	17"	6X133	34.00	23.80	22.10
1 1/8"	22 1/2"	17"	6X134	40.28	28.20	26.18
1 1/2"	22 1/2"	17"	6X135	63.83	44.68	41.49

A TAPER CHUCKS

For use with A taper shank bits listed above. Drift pin included with chuck. Fits Milwaukee, Black & Decker and Skil rotary hammers shown in table. Milwaukee brand.

Fits Rotary Hammer	Mfrs. Model	Stock No.	Each	Wt.
22734 (Milw.)	48-66-6500	6X016	\$10.50	14 oz.
717-719 (B&D)	48-66-6506	6X017	25.00	14 oz.
728 (Skil)	48-66-6709	6X018	15.50	9 oz.
706 (Skil)	48-66-6708	6X019	13.50	4 oz.

WORKSHOP DRILL BIT SET

Sets of 4 Drills for Drilling in Masonry

**\$5.85**

Lots 8

Carbide tipped fast spiral 1/4, 5/16, 3/8 and 1/2" drills, 4" long with 1/4" shanks that fit 1/4" and larger electric drills. Supplied in protective display pouch. Dayton brand. Wt. 6 oz.

No. 4X012. 4-Piece Set. Retail \$9.60. Each \$6.33; lots 8 \$5.85

Your Grainger Territory Salesman

Salesman is available to assist you in selection, ordering, quoting quantity prices, etc. He can help you with your supply problems.

6-PC. POWER BIT SET

High Speed Steel Bits Cut Thru Nails, Screws



\$11.91

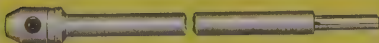
Lots 3

Set of 6 high speed steel bits cut fast and clean in hard and soft woods, plastics, plywood and similar materials—even cut through nails and screws encountered in floors and partitions. Can be resharpened. Come in $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ and 1" sizes. Shank end of all sizes fits into drills with $\frac{1}{4}$ " or larger chuck capacity. Depth of cut, 5". Overall length, $6\frac{1}{2}$ ". For added length to reach difficult work areas, order No. 6X446 12" power bit extension below. Operate at 1500 RPM for most efficient cutting. Meet Federal Spec GGG-B-383b, Type 1, Class Q. In vinyl pouch. Dayton brand. Wt. 12 oz.

No. 6X445. Dayton 6-Pc. Power Bit Set. Retail \$15.88. Each \$12.70; lots 3.....\$11.91

12" POWER BIT EXTENSION

For Use with Dayton & Other 1/4" Shank Bits



Dayton

\$2.30

Lots 3

Adds $10\frac{1}{2}$ " of length to get at tight, hard-to-reach work areas. Join two or more extensions to drill in places that might otherwise be inaccessible. Shank end fits into drills with $\frac{1}{4}$ " or larger chuck capacity. Follows through hole cut by $\frac{1}{16}$ " and larger bits. Overall length, 12". Includes hex key. Dayton brand. Shpg. wt. 3 oz.

No. 6X446. Dayton 12" Power Bit Extension. Retail \$3.07. Each \$2.45; lots 3.....\$2.30

DRILL-DRIVEN PUMP KIT

Drains Engine Oil, Aquariums, Washers, Etc.



\$4.80

Lots 3

Powered by $\frac{1}{4}$ " drill—drains oil from engines, water from aquariums, sinks, etc. Self-priming to 10 ft. Up to 200 GPH at

2000 RPM. $\frac{3}{4}$ " hose thread on inlet and outlet. Teel brand. Shpg. wt. 1 lb.

No. 1P866. Retail \$6.85. Each \$5.14; lots 3, \$4.80

2 1/2" ADJUST. HOLE CUTTER



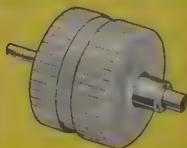
\$5.85

Adjustable for cutting hole from $1\frac{1}{2}$ to $2\frac{1}{2}$ diameter; cuts a full $1\frac{1}{2}$ deep in wood or plastic for pipe and conduit openings, instrument panels, etc. Attaches to $\frac{1}{4}$ " or larger electric drill. Three hardened steel cutting blades on adjustable cam cut clean holes without ragged edges. Change hole size without removing tool from chuck. High-speed $\frac{3}{16}$ " pilot drill. Sk brand (19781). Shpg. wt. 8 oz.

No. 2X702. Retail \$6.50. Each.....\$5.85

SCREWDRIVER ATTACHMENT

Reversible. Geared Drive to Reduce Speed



Dayton



\$6.49

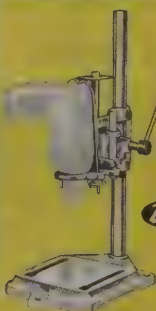
Lots 6

Drives and removes screws and nuts. Fits all portable electric drills. Positive reduction gear drive increases torque, decreases speed. Reduction 11 to 1 forward, 4 to 1 reverse. Instantly reversible: holding forward section of housing stationary operates forward drive, holding rear section reverses drive. Comes with $\frac{1}{4}$ " slotted screw bit with finder, No. 2 Phillips bit, adapter for $\frac{1}{4}$ " drive sockets. Shpg. wt. 8 oz.

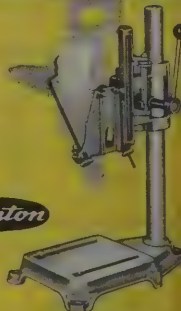
No. 4X643. Retail \$9.98. Each \$6.99; lots 6.....\$6.49

DRILL PRESS STANDS

For all Dayton 1/4", 3/8 and 1/2" Drills



Dayton



MEDIUM DUTY

\$14.81

Lots 3

HEAVY DUTY

\$28.57

Lots 3

Convert Dayton $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ " electric drills to a handy drill press. Drills to center of a 9" or 12" circle. Spindle travels full 2 3/4". Rack and pinion feed with coil spring. Graduated depth markings and lock nut for accurate drilling. Cast aluminum base. Shpg. wt. 7 and 13 lbs.

	Fits This Size Drill	Stand Ht. & Width	No. Stock	Retail	Each	Lots 3
Medium	$\frac{1}{4}$ - $\frac{3}{8}$ "	18 x 7"	22040	\$24.69	\$18.05	\$14.81
Heavy	$\frac{1}{4}$ - $\frac{3}{8}$ - $\frac{1}{2}$ "	21 x 8	22041	47.62	30.95	28.57

HEAVY-DUTY HIGH-SPEED STEEL HOLE SAWS

For Cutting Holes to Accommodate Conduit, Pipe, Etc. Available in Sizes from 3/4 to 4 1/2" Diameter

Dayton



\$3.46

3/4 & 7/8", Lots 5
Less Mandrel



\$6.46

2 1/2", Lots 5
Less Mandrel

Cutting edge is made of high speed molybdenum steel welded to a shatterproof steel back plate for efficient cutting in wood or metal when operated at proper RPM. See table below for operating speeds in metal. When cutting wood, operate at a speed that won't bind saw or splinter wood. Concentricity is held to close tolerances to give a true and exacting circular cut up to 1 1/4" depth. Follow through design permits cutting through multiple partitions and stacked material. Six teeth per inch. Meet Federal spec. GGG-S-66b. Shpg. wt. 3 to 14 oz.

1/4" ROUND MANDREL for 3/4-1 1/4" dia. hole saws. Includes 1/4" pilot drill. Shpg. wt. 2 oz.
No. 4X972. Retail \$3.59. Each \$3.05; lots 5....\$2.87

7/16" HEX MANDREL for 1 1/4" dia. & larger hole saws. Includes 1/4" pilot drill. Shpg. wt. 8 oz.
No. 4X973. Retail \$8.08. Each \$6.86; lots 5....\$6.46

HIGH SPEED 1/4" PILOT DRILL BIT. Wt. 3 oz.
No. 4X974. Retail \$1.84. Each \$1.56; lots 5....\$1.47

Saw Dia.	Cuts Hole to Fit			Operating Speeds (RPM)						—Less Mandrel—			
	Conduit	Pipe	Copper Tube	Mild Steel	Tool Steel, Stainless Stl.	Cast Iron	Brass	Alum.	Stock No.	Retail	Each	Lots 5	
1/4"	1/2"	3/8"	1/2"	460	230	300	600	690	4X961	\$4.33	\$3.68	\$3.46	
7/8"	1"	1 1/8"	1"	390	195	260	520	585	4X962	4.33	3.68	3.46	
	3/4"	1"	3/4"	350	175	235	470	525	4X963	4.56	3.87	3.64	
1 1/8"	1 1/2"	2"	1 1/2"	300	150	200	400	450	4X964	4.56	3.87	3.64	
1 1/2"	2"	2 1/2"	2"	275	140	180	360	410	4X965	4.56	3.87	3.64	
2"	2 1/2"	3"	2 1/2"	250	125	165	330	375	4X966	4.82	4.09	3.85	
2 1/2"	3"	3 1/2"	3"	230	115	150	300	345	4X967	4.82	4.09	3.85	
3"	3 1/2"	4"	3 1/2"	195	95	130	260	295	4X968	6.00	5.10	4.80	
3 1/2"	4"	4 1/2"	4"	170	85	115	230	255	4X969	6.00	5.10	4.80	
4"	4 1/2"	5"	4 1/2"	150	75	100	200	225	6X296	7.42	6.30	5.93	
4 1/2"	5"	5 1/2"	5"	135	65	90	180	205	4X970	8.08	6.86	6.46	
5"	5 1/2"	6"	5 1/2"	115	55	75	150	170	4X971	8.30	7.05	6.64	
5 1/2"	6"	6 1/2"	6"	95	45	65	130	145	6X297	8.30	7.05	6.64	
6"	6 1/2"	7"	6 1/2"	85	40	55	110	130	6X298	12.65	10.75	10.12	
6 1/2"	7"	7 1/2"	7"	75	35	50	100	105	6X299	24.75	21.03	19.80	

3-PC. DELUXE HOLE SAW KIT

Consists of High Speed Hole Saws in 3/4 to 2 1/2" Sizes, Plus Two Mandrels, Pilot Drill and Case



\$47.87

Lots 5

Dayton

7-PC. HOLE SAW KIT

Consists of High-Speed Hole Saws in 7/8 to 1 1/2" Sizes, Plus Mandrel, Adapter and Carrying Case



\$21.08

Lots 5

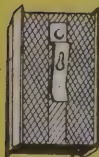
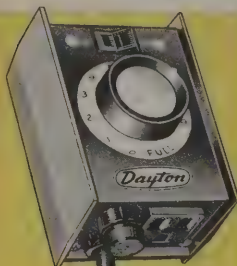
Dayton

Includes 9 popular size high speed hole saws in 1/4, 7/8, 1 1/8, 1 1/2, 1 3/4, 2, 2 1/4 and 2 1/2" sizes for cutting in wood or metal. Plus 1/4" round shank mandrel for 1 1/4" and smaller hole saws; mandrel adapter to convert 1/4" round shank mandrel for use with 1 1/4 through 1 1/2" hole saws; and 7/16" hex shank mandrel for 1 1/4" and larger hole saws. Hole saws have high speed steel cutting edge for maximum cutting efficiency when operated at proper RPM. Meets Federal spec. GGG-S-66b. Dayton brand. 3 1/2 lbs. No. 6X300. Dayton 13-Pc. Hole Saw Kit. Retail \$50.84. Each \$50.86; lots 5....\$47.87

Includes the 5 most popular size high-speed hole saws for tradesmen and home owners—plus one mandrel and mandrel adapter. Hole saws supplied in 7/8, 1, 1 1/8, 1 1/4 and 1 1/2" sizes for cutting holes in wood or metal. Mandrel adapter for use with mandrel furnished to adapt 1 1/4" and larger hole saws to 1/4 and 3/8" drills. Hole saws have high speed steel cutting edge welded to steel back for maximum cutting efficiency when operated at proper RPM. Meets Federal spec. GGG-S-66b. Dayton brand. Shpg. wt. 2 lbs. No. 6X448. Dayton 7-Pc. Hole Saw Kit. Retail \$26.35. Each \$22.39; lots 5....\$21.08

ELECTRONIC SPEED CONTROL FOR POWER TOOLS

Adjusts Motor Speed, Maintains Full Torque. For Use with Universal (AC-DC) Brush-Type Motors



Clip To Belt
or
Hang On Wall

\$15.16

5 Amp. Lots 4

Dayton



FOR DRILLS



FOR SAWS



FOR BUFFERS

Controls speed to make power tools do more jobs, with less wear. Used with drills, saws (except circular), sanders, appliances—anything driven by a universal AC/DC brush-type motor. Reduces speed electronically without reducing torque; cuts drill bit and saw blade wear, gives better control of operation. Wide range of adjustable settings from zero to 70% of full RPM, plus full RPM switch. Permits drilling plastics, soft or hard metals; also slows sanders and polishers for better control. Cuts speed of appliances such as floor scrubbers and polishers, minimizing splatter; reduces heat of conventional soldering irons (not transformer gun type) for printed circuit or transistor work. Dial sets speed desired; electronic feedback maintains speed by feeding motor voltage to motor as load increases. 5 and 10 amp models for use with universal (AC-DC) motors, and 120VDC series-type motor. Slo-blow safety fuse, on/off switch, 3-wire female receptacle. ft. 3-wire AC cord. Clip-on back for attaching to belt or wall mounting. In display carton with instructions. Dayton brand.

Rating	Stock No.	Retail	Each	Lots 4	Shpg.
5 Amp.	4X599	\$23.32	\$16.32	\$15.16	1
10 Amp.	4X701	33.93	23.75	22.05	1

ROSIN & ACID CORE SOLDER



\$3.74

Lots 5

Rosin and acid core solder alloyed of quality tin and lead to high 40/60 ratio. Acid core solder contains fast-acting, efficient flux for all general purpose work. Rosin

core solder makes trouble-free solder joints in radio, TV and similar work. Cartoned in 1 lb. spools. Alpha brand. Shpg. wt. 1½ lbs.

Type Core	Ga.	Mfrs. Model	Stock No.	Retail	Each	Lots 5 Asst'd.
Rosin	13	11406	22173	\$5.76	\$4.03	\$3.74
Acid	11	12406	22174	5.76	4.03	3.74

IMPACT WRENCH SOCKETS

3/8 & 1/2" Square Drive in 9 & 6 Pc. Sets. For Use with Dayton, Other Makes Impact Wrenches



6 sockets—1/2, 9/16, 5/8, 11/16, 3/4, and 13/16" sizes. Dayton brand. Shpg. wt. 1½ lbs.

Made of hardened, drop-forged steel for long service life. 3/8" set has 9 sockets—1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4" sizes. 1/2" set has 6 sockets—1/2, 9/16, 5/8, 11/16, 3/4, and 13/16" sizes. Dayton brand. Shpg. wt. 1½ lbs.

Size	No. Sockets	Stock No.	Retail	Each	Lots 3
1/2"	6	4X002	\$15.38	\$10.77	\$9.69
3/8"	9	5X589	17.33	12.13	10.92

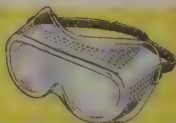
STEEL CARRYING CASE

For Dayton 1/2" Electric Impact Wrenches

A compact, sturdy case for holding Dayton 1/2" electric impact wrench, 6-pc. socket wrench set and 1/2" drill chuck. Dayton brand. Shpg. wt. 8½ lbs.

No. 22397. Retail \$17.32. Each \$14.72

SOFT FRAME GOGGLE

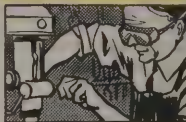


\$1.52

Lots 12

Soft, ventilated, clear plastic frame provides maximum eye protection with comfort, wide vision. Fits over prescription glasses, protects eyes from molten metal, sparks, chips, etc. Optically correct, distortion-free clear lens. Welshgard brand (1010). Shpg. wt. 6 oz.

No. 4X251. Retail \$2.50. Each \$1.75; lots 12, \$1.52



CHEMICAL SPLASH GOGGLE



\$1.85

Lots 12

Protects eyes against harmful chemical splash and fine dust. Has in direct stack-trap ventilation at top and sides of clear plastic frame.

Distortion-free clear lens. Adjustable elastic headband. Welshgard brand (1012). Wt. 5 oz. No. 5X795. Retail \$2.91. Each \$2.13; lots 12, \$1.85

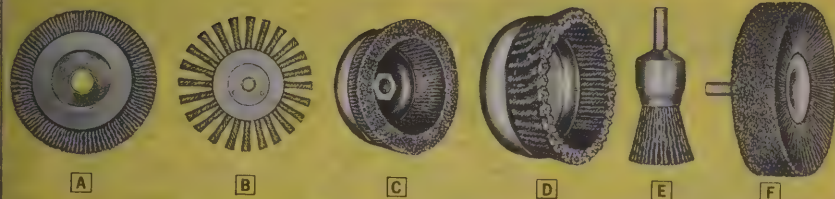
REPLACEMENT LENS FOR NOS. 4X251 & 5X795

High impact clear plastic lens. Shpg. wt. 1 oz. No. 6X273. For Welshgard goggles Nos. 1010 and 1012 shown above. Welshgard brand (1010-1). Retail \$1.23. Each 79¢; lots 12, \$1.00

No. 5X796. For discontinued Welshgard goggles Nos. 1070CC and 1072CC. Welshgard brand (1070-1). Retail \$1.23. Each 79¢; lots 12, \$1.00

Save More—Order from Grainger

Dayton HEAVY DUTY PRODUCTION WIRE BRUSHES



Dayton heavy duty coarse wire brushes are designed for continuous production use in removing paint, scale, rust, carbon, weld spatter,

burrs, etc. Knot-type coarse brushes for extra heavy brushing. Fine wire brushes are ideal for polishing and decorative finishing work.

Key	Dia.	Face Width	Wire Type	Arbor Hole	Max. RPM	Stock No.	Retail	Each	Lots 3	Lots 5	Shpg. Wt.
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NARROW FACE WHEEL BRUSHES

For use with portable or stationary power tools for brushing scale, rust, burrs—or finish preparation prior to painting or plating

A	4"	1 1/2"	.014" Coarse	3/8"-1/2"	6000	5X884	\$4.83	\$3.14	\$2.66	—	4 oz.
A	6	1 1/2	.006 Fine	1/2"-5/8"	6000	5X885	11.26	7.32	6.19	—	12 oz.
A	6	1 1/2	.014 Coarse	1/2"-5/8"	6000	5X886	5.72	3.72	3.15	—	1
B*	6	1 1/2	.023 Coarse	1/2"-5/8"	8000	5X890	8.97	5.83	4.93	—	1
A	8	1 1/2	.014 Coarse	3/8"-5/8"	6000	5X887	8.11	5.27	4.46	—	1

WIDE FACE WHEEL BRUSHES

For heavy duty brushing to remove burrs, smooth welds, remove rust and paint, etc.

A	6"	1 1/2"	.014" Coarse	1/2"-5/8"	6000	5X888	\$14.19	\$9.22	\$7.80	—	1 1/4
A	8	1 1/2	.014 Coarse	5/8"	4000	5X889	24.67	16.04	13.57	—	4

CUP-TYPE HEAVY DUTY BRUSHES

For use with air or electric grinders to remove rust, scale, etc. over large areas

C	4"	—	.020" Coarse	5/8"-11	9000	5X893	\$8.42	\$5.47	\$4.63	—	1 1/2
D*	4"	—	.023 Coarse	5/8"-11	9000	5X891	11.69	7.60	6.43	—	1 1/2
C	6"	—	.020 Coarse	5/8"-11	7000	5X894	14.94	9.71	8.22	—	2 3/4
D*	6"	—	.023 Coarse	5/8"-11	7000	5X892	18.14	11.79	9.98	—	3

END BRUSHES WITH 1/4" SHANK (For air or electric powered drills)

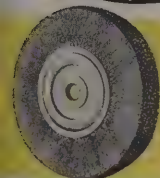
E	3/4"	—	.020" Coarse	1/4"†	20000	5X895	\$2.68	\$1.74	—	\$1.47	8 oz.
E	1"	—	.020 Coarse	1/4"†	20000	5X896	3.26	2.12	—	1.79	6 oz.

WHEEL BRUSHES WITH 1/4" SHANK (For air or electric powered drills)

F	3"	3/8"	.008" Fine	1/4"†	20000	5X897	\$3.83	\$2.49	—	\$2.11	3 oz.
F	3"	3/8"	.0118 Coarse	1/4"†	20000	5X898	3.57	2.32	—	1.96	3 oz.

* Knot type brush for extra heavy brushing. (†) Refers to shank dia. (shank length 3/8").

Dayton WORKSHOP WIRE WHEEL BRUSHES



Dayton wire wheels remove rust, scale, paint or carbon. Also finish all types of metals. Use on bench grinder or with portable power grinder. Accurately balanced. Top quality, high-carbon steel wire. Maximum safe operating speeds: 6", 4000 RPM; 8", 3500 RPM. Dayton brand.

Dia.	Face Width	Wire Type	Bore	Stock No.	Retail	Each	Shpg. Wt.
6"	5/8"	Coarse	1/2" and 5/8"	2X742	\$2.63	\$1.58	9 oz.
6"	5/8"	Fine	1/2" and 5/8"	2X743	3.84	2.30	9 oz.
6"	1 1/8"	Coarse	1/2" and 5/8"	2X744	9.59	5.75	1
8"	1 1/8"	Coarse	1/2" and 5/8"	2X745	15.17	9.10	2

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



ABRASIVE SHEETS, DISCS and BELTS

Replacements for All Dayton Portable and Bench Sanders Listed, plus Most Other Makes

Dayton

Popular size sanding sheets, discs and belts fit most power equipment in use today. Aluminum oxide grain bonded to tough paper, fibre or cloth backing meets rigid specifications. For

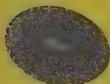
sanding wood or metal. Coarse and very coarse abrasives are open-coat type for use on painted, varnished or other surface that turns gummy when power sanded. Sold and priced only in full packages as listed below.

FOR PORTABLE POWER SANDERS



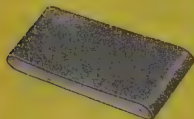
PAPER SHEETS

Size	Grit	Type	No. in Pkg.	Stock No.	Retail	Package Each	Lots 4	Shp. Wt.
3½x9"	40	Very Coarse	10	4X111	\$1.29	\$0.90	\$0.84	4 oz.
3½x9"	50	Coarse	10	4X112	1.29	.90	.84	4 oz.
3½x9"	80	Medium	10	4X113	1.29	.90	.84	3 oz.
3½x9"	120	Fine	10	4X114	1.29	.90	.84	2 oz.



PAPER DISCS AND FIBRE(*) DISCS

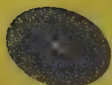
5"	36	Very Coarse	5	4X115	\$1.00	\$0.70	\$0.65	3 oz.
5"	50	Coarse	5	2X478	1.00	.70	.65	3 oz.
5"	80	Medium	5	2X479	1.00	.70	.65	3 oz.
5"	120	Fine	5	2X480	1.00	.70	.65	2 oz.
7"	36	Very Coarse	5	4X600	\$1.66	\$1.16	\$1.08	6 oz.
7"	50	Medium	5	4X601	1.66	1.16	1.08	8 oz.
7"	120	Fine	5	4X602	1.66	1.16	1.08	8 oz.
7**	36	Very Coarse	10	4X871	\$9.29	\$6.50	\$6.04	1½
7*	50	Coarse	10	4X872	9.29	6.50	6.04	1½
7*	80	Medium	10	4X873	9.29	6.50	6.04	1½



CLOTH BELTS

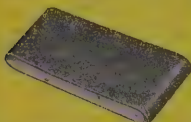
3x21"	30	Very Coarse	5	4X687	\$4.66	\$3.26	\$3.03	1
3x21"	40	Coarse	5	4X688	4.66	3.26	3.03	11 o
3x21"	60	Medium	5	4X689	4.66	3.26	3.03	9 c
3x21"	100	Fine	5	4X690	4.66	3.26	3.03	8 c
3x24"	30	Very Coarse	5	6X260	\$5.30	\$3.71	\$3.45	1
3x24"	40	Coarse	5	6X261	5.30	3.71	3.45	1
3x24"	60	Medium	5	6X262	5.30	3.71	3.45	1
3x24"	100	Fine	5	6X263	5.30	3.71	3.45	1
4x21¼"	30	Very Coarse	5	4X116	\$6.47	\$4.53	\$4.21	1
4x21¼"	40	Coarse	5	4X117	6.47	4.53	4.21	1
4x21¼"	60	Medium	5	4X118	6.47	4.53	4.21	1
4x21¼"	100	Fine	5	4X119	6.47	4.53	4.21	1
4x21¼"	**	**	10	4X120	13.74	9.62	8.93	2

FOR BENCH POWER SANDERS



CLOTH DISCS (Adhesive Backing)

Size	Grit	Type	No. in Pkg.	Stock No.	Retail	Package Each	Lots 4	Shp. Wt.
8"	50	Coarse	5	4X705	\$5.27	\$3.69	\$3.43	1 o
8"	80	Medium	5	4X706	5.27	3.69	3.43	1 o
8"	120	Fine	5	4X707	5.27	3.69	3.43	1 o
9"	50	Coarse	5	5X504	\$6.14	\$4.30	\$3.99	1
9"	80	Medium	5	5X505	6.14	4.30	3.99	1
9"	120	Fine	5	5X506	6.14	4.30	3.99	1



CLOTH BELTS

1x42"	50	Coarse	5	4X702	\$4.63	\$3.24	\$3.01	4 o
1x42"	80	Medium	5	4X703	4.63	3.24	3.01	4 o
1x42"	120	Fine	5	4X704	4.63	3.24	3.01	4 o
4x35"	60	Coarse	5	4X126	\$8.34	\$5.84	\$5.42	1
4x35"	80	Medium	5	4X127	8.34	5.84	5.42	1
4x35"	100	Fine	5	4X128	8.34	5.84	5.42	12
6x48"	50	Coarse	5	5X501	\$15.34	\$10.74	\$9.97	
6x48"	80	Medium	5	5X502	15.26	10.68	9.92	
6x48"	120	Fine	5	5X503	15.26	10.68	9.92	

(*) 7" fibre discs.

(**) Assorted belts—two each No. 30 and 40 grit, three each No. 60 and 100 grit.

ALUMINUM-OXIDE VITRIFIED GRINDING WHEELS

Comply with American National Standards Institute Safety Code B7-1 When Used at RPM Shown

These industrial-type, replacement grinding wheels are made of aluminum-oxide grain and vitrified in long-cycle kilns under the highest possible quality control conditions. Balanced construction assures smooth performance. Hardness is graded, porosity rigidly controlled. Wheels are self-sharpening and comply with American National Standards Institute (formerly American Standard Assoc.) Safety Code B7-1 when operated within max. RPM shown. 6 to 10" wheels fit 3 arbor sizes. Indv. cartoned.



Dayton

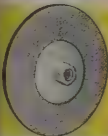
No. 5X591

\$2.13

Lots 5

Dia.	Width of Face	Bore	Grit	Max. RPM	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
5"	1/2"	1/2"	60-Medium	4900	5X591	\$4.30	\$2.56	\$2.13	14 oz.
5"	1/2"	1/2"	36-Coarse	4900	5X592	4.30	2.56	2.13	12 oz.
5"	3/4"	1/2"	24-Coarse	4900	5X963	4.85	2.90	2.42	1 1/4"
6"	3/4"	3/8", 1/2", 1"	100-Fine	4100	5X593	5.30	3.18	2.65	1 3/4"
6"	3/4"	3/8", 1/2", 1"	60-Medium	4100	5X594	5.30	3.18	2.65	2"
6"	3/4"	3/8", 1/2", 1"	36-Coarse	4100	5X595	5.30	3.18	2.65	2 1/4"
7"	1"	5/8", 3/4", 1"	60-Medium	3600	5X596	8.95	5.38	4.48	3 3/4"
7"	1"	5/8", 3/4", 1"	36-Coarse	3600	5X597	8.95	5.38	4.48	3 3/4"
8"	1"	5/8", 3/4", 1"	60-Medium	3600	5X598	10.00	6.02	5.02	4"
8"	1"	5/8", 3/4", 1"	36-Coarse	3600	5X599	10.00	6.02	5.02	4 1/4"
10"	1"	3/4", 1", 1 1/4"	60-Medium	2400	5X600	16.90	10.14	8.45	8"
10"	1"	3/4", 1", 1 1/4"	36-Coarse	2400	5X601	16.90	10.14	8.45	8"

7 & 9" GRINDING WHEELS



Designed to fit all 7 and 9" grinders with 5/8"-11 thread. Easy-on, easy-off feature allows operator to change wheels twice as fast—no special tools or arbor adapters needed. Virtually eliminates downtime. Metal wheels have aluminum oxide grain for fast removal of rust, scale, welds, flame-cut edges, etc. Masonry wheel has silicon carbide grain and is ideally suited for grinding and grinding concrete and similar products. Dayton brand. Shpg. wt. 1 to 1 3/4 lbs.

Type	Dia.	Stock No.	Retail	Each	Lots 5
metal	7"	4X889	\$5.83	\$4.66	\$3.79
masonry	7"	4X890	5.93	4.74	3.85
metal	9"	5X587	7.90	6.32	5.14

5 & 6" CUP WHEELS

These high-quality cup wheels are for all 7 and 9" grinders with 5/8"-11 thread. They are designed to remove metal or masonry fast, and give long service life. Metal wheels have aluminum oxide grain for removing snags, welds and doing other extensive grinding work on metal.



Masonry wheel has silicon carbide grain and is widely used to remove large form marks, scale and other surface irregularities from concrete. Dayton brand. Shpg. wt. 2 1/2 to 4 1/2 lbs.

Type	Dia.	Stock No.	Retail	Each	Lots 5
metal	5"	4X891	\$10.30	\$8.24	\$6.70
masonry	5"	4X892	10.27	8.22	6.68
metal	6"	5X588	12.03	9.62	7.82

BUFFING WHEELS

Strong cloth sewed spirally 3/8" apart from outside edge. 1/4" thick, 1/2" bore. Used for finest polishing jobs. Dayton brand. Wt. 4 oz.

Dia.	Stock No.	Retail	Each	Lots 5
6"	2X432	\$1.20	\$0.90	\$0.84
8"	2X433	1.60	1.20	1.12

GRINDING WHEEL DRESSER



Trues, sets, shapes and removes glaze from grinding wheels. Has two sets of 1 1/4" dia.

\$1.96 high carbon steel cutters. Accurate and easy to use. Cast iron holder. Lots 4 Dayton brand. Shpg. wt. 1 1/4 lbs.

No. 2X951. Retail \$2.69. Each \$2.32; lots 4, \$1.96

HEAVY-DUTY MANDRELS



5/8" Dia.

\$6.20

For saws, grinding wheels, etc.

Have oil-carrying bronze-faced bearings; accurately machined steel flanges; and sturdy shafts. For saws, grinders, buff and scratch wheels, etc. Complete with shaft, bearings. A pulley, collars, flanges and flange nuts. Plate finish. Dayton brand.

Shaft	Thread	LH	Pulley	Stock No.	Retail	Each	Shpg. Wt.
3/4"x12"	1/2"-20	1/2"-20	1 1/2"	1X846	\$10.34	\$8.20	2 1/2"
3/4"x12"	5/8"-11	5/8"-11	2"	1X847	12.15	7.29	3 1/4"

BALL BEARING MANDRELS

For Saws & Grinding Wheels. 1/2 & 5/8" Shafts



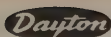
\$6.52

Lots 6

Built for high speeds, heavy loads. Sealed ball bearings on outboard side keep out dirt. Machined steel flanges for securing grinding wheels, etc. Cast iron housing, red finish. 10" long. Mounting holes 5 1/4 x 3 1/4" on centers. Dayton brand. Wt. 5 lbs.

Pulley Shaft Dia. Long	Threaded Shaft Dia. Thread Long	Stock No.	Retail	Each	Lots 8
1 1/2" 1 1/2"	1/2" 20LH 1 1/2"	2X625	\$11.85	\$7.11	\$6.52
1 1/2" 1 1/2"	5/8" 11LH 1 1/2"	2X626	11.85	7.11	6.52

SEE WARRANTY INFORMATION ON PAGE 684

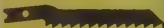


BLADES FOR JIG/SABRE TYPE SAWS

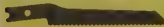
Universal Shank. For Dayton Jig/Sabre Saws and all other Popular Makes
Packaged Two Blades on Bubble-Pack Card. Shpg. Wt. 2 Oz. per Card. Dayton brand

Illustration	No. of Teeth	Type Cut	Length	Recommended Applications	Stock No.	Retail	Pkg. of Two Per Set	Lots 10
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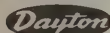
WOOD-CUTTING BLADES—FOR ROUGH AND FINISH CUTTING

	6	Rough	3"	Cuts wood, plywood	5X553	\$1.20	\$0.96	\$0.90
	10	Rough	3	plasterboard, etc.	5X554	1.20	.96	.90
	14	Finish	3	Fine finish cutting	5X555	2.70	2.16	2.02
	10	Finish	3	Fine scroll cutting	5X556	2.70	2.16	2.02

MULTI-PURPOSE BLADE—HIGH CARBON, HIGH CHROME STEEL

	14	—	3	1/4" & heavier metals	5X557	\$1.98	\$1.58	\$1.48
	32	—	3	.030" (24 ga.) & lighter	5X558	1.98	1.58	1.48

PKG. OF 4 ASSORTED JIG/SABRE BLADES—each 14 & 32 tooth metal cutting. Wt. 4 oz./card
One each 6 & 10 tooth rough wood cutting; one No. 5X559. Retail \$2.89. Each \$2.31; lots 10....\$2.10

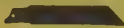



BLADES FOR RECIPROCATING-TYPE SAWS


Universal Shank. For Dayton Reciprocating Saw and all other Popular Brands. Dayton Brand
Sold only in sets of 3 blades attractively packaged in a vinyl pouch. Sets can be assorted to qualify for quantity prices. Approximate ship wt. 3 oz. for 3 blades in pouch. Dayton brand.

Illustration	Teeth Per In.	Type Saw	Length	Recommended Applications	Skill No. Equiv.	Stock No.	Retail	Per Set	Set of 3 Lots 10
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METAL CUTTING BLADES—HIGH-SPEED, HACK SAW STEEL

	24	Straight	4"	Ferrous metals less than 1/2"	20544	4X073	\$2.19	\$1.86	\$1.75
	24	Scroll	3 1/4		20545	4X074	2.58	2.19	2.00
	18	Straight	4	Ferrous metals 1/2 to 3/4"	20546	4X075	2.19	1.86	1.75
	18	Scroll	3 1/4		20547	4X076	2.19	1.86	1.75
	14	Straight	4	Ferrous or non-ferrous metals up to 1/2"	20548	4X077	3.06	2.60	2.40
	18	Straight	6	For hard metals:	20380	5X560	3.96	3.36	3.10
	18	Straight	3	Stainless steel, alloy	20546	5X561	2.58	2.19	2.00
	14	Straight	6	steel pipe, etc.	20359	5X562	3.96	3.36	3.10

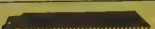
WOOD CUTTING FLEAM-FILED BLADES—HIGH CARBON STEEL

	8	Straight	6	Cuts hardwood, plastic,	20572	4X079	\$3.06	\$2.60	\$2.40
	10	Scroll	4	composition board, etc.	20538	4X080	3.42	2.90	2.70

MULTI-PURPOSE BLADE—HIGH CARBON, HIGH CHROME STEEL

	10	Straight	6	Cuts wood, nails, most non-ferrous metals	20542	4X081	\$2.19	\$1.86	\$1.75
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PLASTER CUTTING BLADE—HIGH CARBON, ALLOY STEEL

	6	Straight	6	Cuts plaster on metal lath, building tile, etc.	23806	4X082	\$2.19	\$1.86	\$1.75
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BLADES for MILW. SAWZALL

For most reciprocating saws. Sold in packages of 5 or 10 only. Wt. 7-10 oz. Milwaukee brand.

Teeth Per In.	Blade Length	No. in Pkg.	Appl. cations	Mfrs. Model	Stock No.	Each (Pkg.)
10	6"	5	Roughing-In	48-00/1014	6X013	\$4.90
7	6	10	Nail Embed-	48-00/1031	6X014	3.65
7	12	5	ded Wood	48-00/1032	6X015	6.15
18	2 1/2	10	Metal	48-00/1102	6X011	4.40
24	2 1/2	10	Scroll	48-00/1103	6X012	4.40
14	4	10	Metal	48-00/1172	6X006	5.45
14	4	10	Cutting,	48-00/1174	6X007	5.45
18	2 1/2	10	1/2" Thick	48-00/1173	6X008	4.40
14	6	10	and	48-00/1179	6X009	8.80
18	6	10	Heavier	48-00/2170	6X010	8.80

BLADES for MILW. BAND SAW

For most portable band saws. Sold in packages of 1 or 3. Wt. 6-10 oz. Milwaukee brand.

Teeth Per In.	Blade Type	Cutting Thick.	No. in Pkg.	Mfrs. Model	Stock No.	Each (Pkg.)
10	Carbon	3/16-3/8"	3	48-39/0070	6X020	\$6.90
14	Carbon	5/16-1/2"	3	48-39/0080	6X021	6.90
14	Hi-Speed	3/16-5/8"	1	48-39/8360	6X022	7.40

BLADES for HACK/BAND SAW

Tough high speed blades with raker teeth for cutting ferrous and non-ferrous metals, etc. Dayton models, other makes. Dayton brand.

Teeth Thick-Perlin.	Thick-ness	Long	Wide	Stock No.	Retail	Each	Shp. Wt.
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BLADES FOR DAYTON HACKSAW, No. 227

10	.050"	12"	1"	6X145	\$2.55	\$2.17	4.00
14	.050	12	1	6X146	2.55	2.17	4.00

BLADES FOR DAYTON BAND SAWS Fit Nos. 3Z518, 3Z360 and 3Z365

10	.032"	101"	5/8"	6X220	\$5.25	\$4.46	9.00
14	.032	101	5/8	6X221	5.25	4.46	9.00
10*	.020	93	1/2	22569	11.31	9.61	8.00
14*	.020	93	1/2	22570	11.31	9.61	8.00
18*	.020	93	1/2	22571	11.31	9.61	8.00
10	.025	64 1/2	1/2	22137	3.49	2.96	6.00
14	.025	64 1/2	1/2	22138	3.49	2.96	6.00
18	.025	64 1/2	1/2	22139	3.49	2.96	6.00
10*	.020	64 1/2	1/2	22565	8.69	7.37	6.00
14*	.020	64 1/2	1/2	22566	8.69	7.37	6.00
18*	.020	64 1/2	1/2	22377	8.69	7.37	6.00

(*) Honed alloy steel blades, all others carbon steel.

Dayton ALLOY STEEL CIRCULAR SAW BLADES

These heat treated, chrome-nickel-molybdenum alloy steel blades with zinc chromate finish stay sharp up to 5 times longer than conventional blades. Rigid specifications control manufacturing. Blades are accurately flat-ground; set for clean, easy cutting; and evenly tensioned to run true. Arbor hole bushings are furnished to fit saws with $\frac{1}{2}$ or $\frac{3}{8}$ " round or diamond arbor, except Nos. X578 and 6X117 10" blades are supplied with bushings to fit saws with $\frac{5}{8}$ or $\frac{3}{4}$ " round or diamond arbor. Supplied in envelope.

No. 4X023

\$2.33

Lots 5



A B C D E

Blade Dia.	No. Teeth or Sections	Applications	Stock No.	Retail	Each	Lots 5 Asst'd.	Shpg. Wt.
CHISEL-TOOTH COMBINATION TYPE C BLADES							
6"	26	Popular all-purpose	4X023	\$3.58	\$2.51	\$2.33	9 oz.
6½"	28	blade for both ripping	2X798	3.95	2.77	2.57	9 oz.
7"	30	and cross cutting. Small	4X024	4.37	3.06	2.84	11 oz.
8"	30	number of teeth for	6X116	4.76	3.33	3.09	1
10"	30	fast cutting.	6X117	7.01	4.91	4.56	1½

WITH-GRAIN RIPPING BLADES, TYPE A							
6½"	30	For cutting with grain	6X119	\$3.95	\$2.77	\$2.57	12 oz.
7½"	36	in hard or soft wood.	6X120	4.37	3.06	2.84	12 oz.

MITER COMBINATION TYPE S BLADES							
7¼"	12	For smooth finish	6X118	\$4.37	\$3.06	\$2.84	12 oz.
8"	13	cutting. Rips, cross-	2X577	4.76	3.33	3.09	14 oz.
10"	16	cuts and miters well.	2X578	7.01	4.91	4.56	1¾

CROSSCUT BLADES							
6½"	100	For crosscut work on	4X537	\$3.96	\$2.77	\$2.57	8 oz.
7"	108	hard or soft wood.	2X584	4.37	3.06	2.84	11 oz.

PLYWOOD and PLASTIC FINE-TOOTH BLADES							
6"	172	For smooth, splinter free	4X539	\$4.33	\$3.03	\$2.81	8 oz.
6½"	190	cutting of plywood, veneer,	4X540	4.84	3.39	3.15	8 oz.
7"	200	thin plastic, etc. Fine	4X541	5.27	3.69	3.43	11 oz.
8"	228	teeth leave a smooth cut.	4X542	5.27	3.69	3.43	12 oz.

Dayton CARBIDE-TIPPED CIRCULAR SAW BLADES

Blade Dia.	No. of Teeth	Stock No.	Retail	Each	Lots 5 Asst'd.
½"	20	6X121	\$11.34	\$7.94	\$7.37
¾"	24	6X122	13.02	9.11	8.46
1"	24	6X123	14.77	10.34	9.60
1½"	36	6X124	25.68	17.98	16.69

Welded carbide tips outwear conventional blades 50 to 1, give 10 times greater tooth strength
Universal arbor hole



Dayton MASONRY and METAL CUT-OFF WHEELS

Diamond-carbide wheels for cutting masonry, aluminum-oxide wheels for ferrous and non-ferrous metals. Both types are reinforced with sin-bonded fiberglass for safety with normal use. Wheels for portable saws are externally reinforced; wheels for stationary saws, internally reinforced. Masonry wheels for portable saws are color coded silver; metal wheels, gold. Metal wheels for stationary saws are black. Universal arbor hole. Individually packaged. Wt. 6 to 10 ozs.



Comply with American Standard Association Safety Code B7-1.

\$2.00 No. 4X631
Lots 10

Blade Dia.	Thickness	Type	Arbor Bushing	Applications	Stock No.	Retail	Each	Lots 5	Lots 10
FOR PORTABLE POWER CIRCULAR SAWS									
½"	⅛"	Masonry	⅛" & ⅜"	Concrete, cinder and	4X631	\$3.34	\$2.34	—	\$2.00
	⅜"	Masonry	⅜" & ⅝"	cement block, tile,	5X602	3.37	2.36	—	2.02
	⅝"	Masonry	⅝" & ⅞"	brick, slate, marble,	4X628	3.46	2.42	—	2.08
	⅞"	Masonry	⅞" & 1"	and similar materials.	4X629	4.03	2.82	—	2.42
½"	⅛"	Metal	⅛" & ⅜"	All types of ferrous	5X603	3.37	2.36	—	2.02
	⅜"	Metal	⅜" & ⅝"	and non-ferrous metals.	5X604	3.96	2.77	—	2.38

FOR STATIONARY POWER CUT-OFF SAWS									
10"	⅜"	Metal	⅝"	All types of ferrous	5X906	\$4.73	\$4.02	\$3.54	—
	⅝"	Metal	⅞"	and non-ferrous metals.	5X907	8.50	7.22	6.37	—

SEE WARRANTY INFORMATION ON PAGE 684

CUTTING & FINISHING TOOLS for HAND GRINDERS

A B C D



Dayton

A thru D INDIVIDUAL ROTARY CUTTERS. Made of tungsten carbide steel to last many times longer than conventional high-speed steel cutters. Used for cutting, shaping and hollowing most metals, plastics and woods. Shank diameter $\frac{1}{8}$ ". Maximum cutting head diameter $\frac{1}{8}$ ". Overall length $1\frac{1}{2}$ ". Shpg. wt. 1 oz.

Key	Shape	Stock No.	Retail	Each	Lots 3
A	Cylindrical	6X193	\$6.13	\$4.29	\$3.98
B	Cylindrical	6X194	6.13	4.29	3.98
C	Spherical	6X195	6.13	4.29	3.98
D	Conical	6X196	6.13	4.29	3.98

E thru H GRINDING POINTS, PKG. of 6. Heads are made of silicon-carbide grain for finishing steel, ceramics, glass and other exceptionally hard materials. Steel shank $1\frac{1}{8}$ x $\frac{1}{8}$ " (Nos. 6X197, 6X198) or $1\frac{1}{4}$ x $\frac{1}{8}$ " (Nos. 6X199, 6X2000). Shpg. wt. 2 oz.

Key	Maximum Grinding Head Dia.	Stock No.	— Package of 6 —		
			Retail	Each	Lots 3
E	5/16"	6X197	\$5.44	\$3.81	\$3.54
F	3/16	6X198	5.44	3.81	3.54
G	3/4	6X199	5.44	3.81	3.54
H	1/2	6X200	5.44	3.81	3.54

J WIRE BRUSH, PKG. of 6. A small, versatile steel brush for efficiently removing rust and corrosion. Ideal for cleaning hard-to-reach metal surfaces. Fine wire brush dia. $\frac{3}{4}$ ". Steel shank $1\frac{1}{2}$ x $\frac{1}{8}$ ". Not to be used at speeds exceeding 15,000 RPM. Wear faceshield or safety goggles. Shpg. wt. 2 oz.

No. 6X201. Package of 6 Wire Brushes. Retail \$6.88. Each \$4.82; lots 3.....\$4.4

K BRISTLE BRUSH, PKG. of 6. For cleaning and polishing metal surfaces, including silverware and jewelry. Gets into corners of small intricate embossed surfaces to do a thorough cleaning job. Bristle brush dia. $\frac{3}{4}$ ". Steel shank $1\frac{1}{2}$ x $\frac{1}{8}$ ". Shpg. wt. 2 oz.

No. 6X202. Package of 6 Bristle Brushes. Retail \$5.44. Each \$3.81; lots 3.....\$3.1

L DRUM SANDER, PKG. of 4. For rough shaping wood, smoothing fiberglass and doing other kinds of finishing work. Each sander drum comes with one $\frac{1}{2}$ " diameter coarse grit sanding band. Replacement sander bands are listed below. Steel shank $\frac{3}{4}$ x $\frac{1}{8}$ ". Shpg. wt. 1 oz.

No. 6X203. Package of 4 Drum Sanders. Retail \$6.51. Each \$4.56; lots 3.....\$4.2

M REPLACEMENT SANDING BANDS, PKG. 24. $\frac{1}{2}$ " diameter coarse grit. Shpg. wt. 1 oz.

No. 6X204. Package of 24 Replacement Sanding Bands. Retail \$3.63. Each \$2.54; lots 3.....\$2.2

GRIP-TITE SELF-DRILLING SHEET METAL SCREWS



SELF-DRILLING HARDENED POINT

1000 #6 \$7.76 Made to speed up work and save time. These self-drilling metal screws have hardened points that penetrate metal surfaces immediately—without walking. Use with screwdriver, $\frac{1}{4}$ " nut driver or magnetic screw holder (No. 4X686) listed below. Full-three type to draw material under head—serrated surface of wash secures setting. Screw can be removed or replaced without stripping damage to thread. A must for heating and air conditioning duct work, vehicles, appliances, storm doors, windows, gutters, etc. Also use on molded, laminated and fiber materials. Bright, chromate zinc finish.

Quantity Prices Available On Request

Dia. Size	Length	Screws Per Box	Stock No.	Retail	—Per Box— Each	Lots 4	Shpg. Wt.
6	3/8"	1000	4X668	\$12.93	\$8.40	\$7.76	2 1/2
7	1/2"	1000	4X669	13.28	8.63	7.97	2
8	1/2"	1000	4X670	14.53	9.44	8.72	3
10	3/4"	500	4X671	10.21	6.64	6.13	2

1/4" MAGNETIC SCREW HOLDER



Hex head fits Dayton No. 2Z218 and many other power screwdrivers and drills. Magnetic-type, holds $\frac{1}{4}$ " hex screw securely. Shpg. wt. 2 oz.
No. 4X686. Retail \$3.25. Each \$2.30; lots 12.....\$1

TRADESMAN ELECTRIC SCREWDRIVER



Drives screws in materials of different density when pressure applied, stops instantly when pressure is released. See main list in power tool section for complete specifications. Dayton brand. and CSA listed. Shpg. wt. 5 1/4 lbs.
No. 2Z779. Dayton Screwdriver. Retail \$139.00. Each.....\$118

Dayton

115 or 230V PORTABLE SPOT WELDERS

Weld Mild or Stainless Steel up to 1/8" Thick.
12" Throat. For Sheet Metal & Auto Body Shops, Etc.

Either Model
\$133.21
Including
Arms & Tips



These handy spot welders provide the advantages of resistance welding with a tool that is light in weight for easy handling, even during periods of prolonged use. Units weld mild and stainless steel up to 1/8" combined thickness, or two pieces of 20 ga. galvanized. Ideally suited for sheet metal shops, truck and auto body shops, farm implement work, etc. Multi-pressure lever draws 12" tongs together, locks them firmly on work until welded. Lifting lever opens tongs. Units operate at 50% duty cycle at 1.5 KVA. Turnout-proof transformer is wound with high-temperature resistant, glass insulated magnet wire. High grade electrical silicon steel core. 10 ft., 3-cond. cord set included. Operate on 50 or 60 Hz. 115V model requires 30 amp fused branch circuit; 230V unit, 15 amp fused circuit. Approximate dimensions: 23 L x 6 H x 4" W. UL and CSA listed. Dayton brand.

Volts	Stock No.	Retail	Each	Shpg. Wt.
115	2Z543	\$157.50	\$133.21	28
230	2Z544	157.50	133.21	29

REPLACEMENT SPOT WELDER TIPS

Available on special order. For fastest shipping service, order from nearest Grainger location. Welder tips sold in pairs only. Dayton brand. Shpg. wt. 13 oz.
No. 2Z545. Retail \$2.50. Pair.....\$2.38



No. 2Z649
FLOOR
STAND,
\$33.51

\$227.99
Less Motor
and Stand

FLOOR STAND



For No. 2Z543 or 2Z544 spot welder. Has spring-loaded foot control for high speed, repetitive production welding. Pressure on foot pedal closes welding tongs, re-opens them when released. All-steel stand is 34 H x 7 W x 18" D, comes with 18 W x 34 L x 5/8" T floor board. Shipped unassembled. Dayton brand. Wt. 34 lbs.

No. 2Z581. Ret. \$35.00.
Each\$30.47

PRODUCTION TIMER FOR WELDER

Solenoid-type timer fits between end cap and base of spot welder for precision welding in production work. Control knob adjusts from 1/10th to 1 second. Wiring instructions included. 50/60 Hz. 3 1/2 x 3 1/2 x 3". Available on special order. For fastest shipping service, order from nearest Grainger location. Dayton brand.

Volts	Stock No.	Retail	Each	Shpg. Wt.
115	2Z582	\$85.00	\$71.77	2
230	2Z583	85.00	71.77	2

10" CUT-OFF SAW

Cuts Rounds to 2 1/2" Dia., Rectangles to 2 1/2 x 4"

Ruggedly built unit has cast iron base and body with sealed, permanently lubricated ball bearings. Cast aluminum pulley and drive belt (included) are protected by a steel cover. Heavy duty 2 HP rated toggle switch. Single speed 4600 RPM arbor, 1 1/4" in dia. and necked to 5/8" dia. to accept standard abrasive wheel. Arbor collar and wheel guard with exhaust port are designed to meet OSHA requirements. Vise size 2 x 5", adjustable 0 to 45° for miter cuts. Overall length with motor 35"; overall height without optional stand 23" (with stand 51"). Supplied with work stop and general purpose 10" dia. reinforced abrasive wheel. Rewired; instructions for connecting to power supply included. Dayton brand. Shpg. wt. 88 lbs.

CUT-OFF SAW LESS MOTOR AND STAND

No. 2Z644. Retail \$259.95. Each.....\$227.99

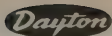
CUT-OFF SAW WITH MOTOR, LESS STAND

No. 2Z644 cut-off saw with 2 HP, 115/208-230V, 60 Hz, TEFC capacitor motor. Motor packed separately. Shpg. wt. 130 lbs.

No. 7Z424. Retail \$390.00. Each.....\$330.12

YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.

SEE WARRANTY INFORMATION ON PAGE 684



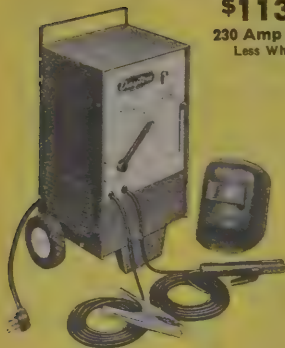
AC ARC WELDERS

For Farm, Home, Shop & Maintenance Welding. NEMA Rated. UL Listed

No. 3Z561

\$113.65

230 Amp Welder
Less Wheel Kit



No. 3Z562

\$149.97

295 Amp Welder
Less Wheel Kit



Optional Wheel Kit.
No. 2Z966. Each \$6.89

- **Easy To Operate.** Quick set amperage control allows instant amp changes. No cranking. No plugs to change.
- **Easy To Install.** Operates on standard 230V, 60 Hz single phase current.
- **Continuous Current Control** allows operator to set exact heat needed for each job. Settings are precise and free from creep.

- **Duty Cycle.** 20% duty cycle at 230 amps and 60% at 160 amps on No. 3Z561; 20% at 295 amps and 60% at 180 amps on No. 3Z562.
- **Portability.** See optional wheel kit listed below for easy movement of machine to work.
- **Includes 6 ft. 3 Cond. Cord Set, 10 ft. ground cable with clamp, 12 ft. electrode cable with holder and welding helmet.**

No. 3Z561 230 Amp Welder. This fan cooled precision arc welder cuts, bends, welds or pierces carbon and stainless steel; solders and welds cast iron. Can readily be used in auto body and sheet metal shops, farms, plant maintenance. Instant amp changes are made possible by quick set amperage control. Handles up to $\frac{3}{16}$ " mild steel electrodes. Permanent recommendations for electrode sizes and amp settings are located on machine front. Welder provides true continuous current control from 30 to 230 amps. 230V, 60 Hz single phase input. 21 H x $13\frac{1}{2}$ W x $11\frac{1}{2}$ " D. Dayton brand.

No. 3Z562 295 Amp Welder. Fan cooled, heavy duty arc welder performs all basic welding functions plus supplies high heat needed for welding thicker steels in metal fabricating shops, etc. Provides high open circuit voltage to insure easy arc starting and maximum arc stability. Handles up to $\frac{1}{4}$ " mild steel electrodes. Permanent recommendations for electrode sizes and amps settings are located on machine front. Welder provides true continuous current control from 30 to 295 amps. 230V, 60 Hz single phase input. 12 H x $13\frac{1}{2}$ W x $11\frac{1}{2}$ " D. Dayton brand.

Welding Range	Rated Current Output 20% Duty Cycle Volts Amps	Open Circuit Maximum Volts	Recom'd Fuse Amps	Stock No.	Less Wheel Kit Retail	Shpg. Wt.
30-230	25 230	78	60	3Z561	\$149.95	108
30-295	30 295	78	60	3Z562	179.95	110
					\$113.65	
					149.97	

WHEEL KIT FOR DAYTON WELDER

Includes two 6" wheels, axle, foot, screws, handle and mounting brackets. For use with Nos. 3Z561, 3Z562, 3Z563 welders. Shpg. wt. $\frac{5}{2}$ lbs. Dayton brand.

No. 2Z966. Dayton Wheel Kit. Retail \$7.95. Each \$6.89

AIR CONDITIONER BLOWER MOTORS



Permanent split capacitor motors for air conditioner blowers and condenser fans are stocked at Grainger's. $\frac{1}{8}$ to 1 HP models, single and 2-speed, 115 and 230V, NEMA 48 or 56Z frame, thermal

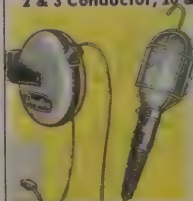
protection, single or double shafts. Adapter brackets for replacements, also stocked. See Index under Motors, Air Cond.

HEAVY DUTY LIGHT REELS

2 & 3 Conductor, 20 & 25 Ft. Lengths. UL Listed

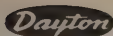
20 Ft., 18/2

\$9.44



Portable cord reel pulls out and locks at desired length; retracts automatically. Steel bulb guard, reflector; push-thru switch. 2-ft. installation cord. Steel casing swivel mounts on wall or ceiling. No. 1W942 has SVT black cord, $\frac{6}{16}$ " diameter steel housing. No. 1W943 has SJT black cord, 1 outlet, $\frac{9}{16}$ " D housing. Dayton brand.

Length	Ga./ Cond.	Max. Amps	Stock No.	—Less Bulb— Retail	Shpg. Wt.
20 ft.	18/2	7	1W942	\$14.53	\$9.44
25	16/3	9	1W943	31.15	20.25



AC/DC ARC WELDERS

Production Welder Performance at Shop Welder Cost and Size



No. 3Z563
\$238.41
 230AC/180DC
 Amp Welder
 Less Wheel Kit

Optional Wheel Kit
 For No. 3Z563 Only.
 No. 2Z966. Each \$6.89



No. 3Z564
\$279.74
 250AC/150DC
 Amp Welder

DC Output Provides Maximum Quality with all electrode types including aluminum low hydrogen, stainless steel and hardsurfacing.

DC Output For Out of Position Welding either vertical or overhead.

Continuous Current Control allows operator to set exact heat needed for each job. Settings

No. 3Z563 230/180 Amp AC/DC Welder. Provides maximum flexibility for use in plant maintenance, repair, machine shops and training schools. Welds with AC, DC+ or DC-, giving operator flexibility; welds with all types of electrodes up to 3/16", all position welding. Permanent recommendations for electrode sizes and amps settings are located on machine front. Welder provides true continuous current from 30 to 230 amps, 230V, 60 Hz, single phase input. Comes with 6 ft. 3-cond. cord set, 12 ft. electrode cable with holder, 10 ft. ground cable with clamp and welding helmet. 12 H x 13 1/2 W x 4 1/2 D. Dayton brand.

are precise and free from creep.

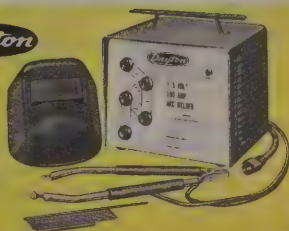
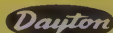
- 50% Duty Cycle at 135 amps on No. 3Z563 welder and at 175 amps on No. 3Z564.
- Portability for easy movement to work area using optional wheel kit listed on opposite page. Available on No. 3Z563 only.
- NEMA Rated and UL Listed.

No. 3Z564 250 Amp AC/DC Welder for light industry, plant maintenance and job shop use. Welds with AC, DC+ or DC-, giving operator flexibility; welds with all types of electrodes up to 1/4", all position welding. High open circuit voltage (78V AC, 65 V DC) insures easy arc starting and maximum arc stability. Permanent recommendations for electrode sizes and amps settings are located on machine front. Provides true continuous current control from 30 to 250 amps. 208/230V, 60 Hz single phase input. Has junction box, 12 ft. electrode cable with holder, 10 ft. ground cable with clamp and welding helmet. 12 H x 13 1/2 W x 11 1/2 D. Dayton brand.

Welding Range AC Amps	DC Amps	Rated Current Output 20% Duty Cycle Volts	Open Circuit Maximum Volts	Recom- mended Fuse Amps	Stock No.	Retail	Each	Shpg. Wt.
30-230	25-180	25	230	60	3Z563	\$355.00	\$238.41	124
30-250	30-250	30	250	60	3Z564	538.50	279.74	155

DAYTON PORTABLE WELDERS

These versatile home and shop welders will weld, braze, cut, heat (for bending) and solder metal. No special wiring or circuits required. Plug unit plugs into any 115V outlet; 100 amp welder is fully adjustable and operates from 115V outlet with 30 amp fuse or 20 amp time delay fuse. Lightweight with carrying handle for taking to the work. Comes with multipurpose torch that serves as a ground clamp, electrode holder and carbon flame torch (for brazing, heating, bending). Cables, welding helmet, electrodes and carbons also included. Operating instructions are permanently printed on back panel. Enamel finish. No. 2Z672 is UL listed.



100 AMP
\$85.44

Amp current Range	Arc Volts	Primary Volts 60 Hz.	Primary Amps	Open Circuit Volts	Max. Electro- de	H	Overall Dimensions W	D	Stock No.	Retail	Each	Shpg. Wt.
50	25	115	15	45	3/16"	10 1/8"	10 3/4"	8 1/2"	2Z672	\$75.00	\$39.94*	31
0-100	25	115	30	80	1/8"	12	12 1/4"	10	2Z671	122.05	85.44	46

While Stocks Last.

SEE WARRANTY INFORMATION ON PAGE 684


\$119.63

Less Wheel Kit

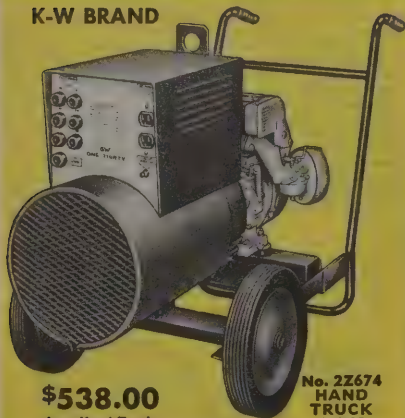
Welds, cuts or bends stainless and mild steel, thaws frozen pipes, pierces steel, welds cast iron, and solders. For use on 230 volts, single-phase 60 Hz AC. 20% duty cycles, arc volts 25. Built-in arc stability provides a steady welding arc. Fan-cooled, aluminum-wound transformer. Takes electrodes up to $\frac{3}{16}$ " dia. Accessories include fiberglass safety helmet with cover glass and welding lens, $\frac{1}{2}$ ft. insulated input cord with 3-prong plug, electrode holder, electrodes, 1 ft. welding cable, 10 ft. ground cable with clamp, and electrode selection guide. Overall dimensions: 24 H x 17 W x 13 $\frac{1}{2}$ " D. Lincoln brand (HC225-S) Shpg. wt. 114 lbs.

No. 3Z335. Lincoln 225 Amp Welder Outfit, less Wheel Kit. Retail \$122.00. Each.....**\$119.63**

WHEEL KIT FOR LINCOLN WELDER

Includes 5" solid rubber tires with axle, plus front-mounted adjustable bolt rest. Wt. 3 lbs.

No. 2Z529. Retail \$6.76. Each.....**\$5.76**

130 AMP WELDER & 3000 WATT POWER PLANT
K-W BRAND

\$538.00

Less Hand Truck

 No. 2Z674
 HAND
 TRUCK
 \$43.85

A Combination Gas-Engine Driven AC Welder & Power Plant. Hand Truck & Access. Kit Options

When operated as a welder, unit provides all amperage ranges for selecting the current control best suited for each welding application. When operated as a power generator, unit delivers 3000 watts, 115V, AC, 60 Hz power sufficient to operate thirty 100 watt bulbs, drive 1 HP motor—or operate pumps, blowers, freezers, compressors, power tools, milking machines, etc. Accepts electrodes from 1/16 to 5/32" diameter. Powered by a Tecumseh 8 HP, 4-cycle engine with high tension magneto system and recoil starter. Engine speed 1800 RPM at idle, 3600 RPM under load. Compact and light enough for two men to handle. K-W brand (130).

GENERAL SPECIFICATIONS

Welding Current Ranges	Rated Output at 35% Duty Cycle	Max. Open Circuit Volts	Power Generator AC	Overall Dimensions	Shpg. Wt.
130, 115, 105, 90, 75, 50	130 Amps	65	115 Volts, 60 Hz, 26 Amps	28" L, 19 W, 24 H	247

COMBINATION WELDER & POWER PLANT

No. 3Z451. Welder/Power Plant, Less Hand Truck, Access. Kit. Retail \$588.00. Each, **\$538.00**

HAND TRUCK FOR NO. 3Z451

A sturdy, all-steel hand truck specially designed to accommodate No. 3Z451 welder/power generator. Moves easily on 13" dia. cast-steel wheels with semi-pneumatic tires. Tubular steel handle; heavy gauge steel channel frame. K-W brand (GW-1). Shpg. wt. 26 lbs.

No. 2Z674. Retail \$48.85. Each.....**\$43.85**

ACCESSORY KIT FOR NO. 3Z451


Includes 15 ft. electrode cable, electrode holder, 10 ft. ground cable, welding helmet. K-W brand (1GAA). Shpg. wt. 7 $\frac{1}{2}$ lbs.

No. 2Z673. Retail \$29.00. Each.....**\$24.00**

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
 WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

FUME AND SMOKE EXHAUSTERS

Exhausts Fumes, Smoke, Dust and Heat. Supplies Fresh Air



- Brazing
- Soldering
- Welding



\$194.53

No. 1Z968

Dayton exhauster keeps fumes and smoke away from welding, soldering or brazing areas to help comply with OSHA regulations. Can also be used as confined area ventilator. Completely self-contained with 10 ft. of flexible inlet duct and nozzle. Adjustable blower discharge can be used to direct fumes away from workers or for additional duct work.

Non-sparking, cast aluminum unit with self-cleaning radial wheel. Powered by totally enclosed, fan-cooled, 3450 RPM, 60 Hz motors. Nos. 1Z968 and 3Z572 are capacitor start; Nos. 3Z573 and 3Z574 are 3 phase units. No. 1Z968 is supplied with 8 ft. 3-cond. cord, On-Off switch and prewired at 115V. Universal mounting frame permits portable use on hand truck or dolly, or permanent mounting on wall or work bench. Dayton brand.

Air Flow CFM	Velocity FPM	Decibel Reading*	Motor HP	Phase	Nozzle Dia.	Hose Length	Stock No.	Retail	Each	Shpg. Wt.
370	4242	80	1/2	1	4"	120"	1Z968	\$301.00	\$194.35	62
485	3555	87	1	1	5	120	3Z572	392.00	249.53	74
485	3555	87	1	3	5	120	3Z573	392.00	249.53	74
630	3840	83	1 1/2	3	5	120	3Z574	464.00	291.33	89

* Decibel reading is at 5 ft. with air hoses and nozzle attached.

HOW TO SELECT PROPER FUME EXHAUSTER

Exhauster should be placed as near as practical to the welder or other equipment it is exhausting and provide a rate of air flow sufficient to maintain a velocity of 100 linear feet per minute in the welding zone. Use table below to determine the minimum air flow rate recommended by the American Welding Society to accomplish this controlled velocity.

First determine the distance the exhauster nozzle is located from the arc or torch. Next, go across the table to find the air flow CFM recommended and nozzle diameter required. Then, select the Dayton exhauster with the air flow CFM that exceeds the recommended figure

obtained from the table. For example, if exhauster nozzle is 6" away from the torch, the air flow should be 275 CFM and nozzle diameter must be 4". Stock No. 1Z968 has a 4" nozzle and provides 370 CFM air flow, which far exceeds the minimum requirement.

Distance of Exhaust Nozzle from Arc or Torch	AWS Recom'd CFM Air Flow	Nozzle Diameter
6 to 8"	275	4"
Over 8 to 10	425	5
Over 10 to 12	600	5

SPEEDAIRE TWIN-LINE WELDING HOSE

For Gas & Oxygen. Exceeds RMA-CGA Requirements for Burst Strength & Flame Resistance



Speedaire

3/16" ID, 12'

\$9.09

Lots 2

Speedaire twin-line welding hose is flexible and highly kink resistant for easy use on the job. Heavy duty, flame resistant neoprene cover resists the deteriorating effects of oils, acids, alkalis and other corrosive liquids. Top quality SBR tube is reinforced with 1-ply high tensile braid for maximum burst strength. Wide web separates easily and evenly, yet has strength to resist tears or unwanted extra separation. Oxygen line is color-coded green, gas line red. Exceeds RMA-CGA requirements for flame resistance, burst strength. 3/8" FPT fittings. Speedaire brand.

In- side Dia.	Out- side Dia.	Length	Working Pres- sure	Stock No.	Retail	Each	Lots 2	Shpg. Wt.
3/16"	1/4"	12 Ft.	250 psi	22703	\$15.95	\$9.57	\$9.09	3
3/16	1/4	25	250	22704	23.80	14.15	13.44	5 1/2
1/4	1/2	25	200	22705	30.95	18.57	17.84	7

9 to 60" BLADE DAYTON EXHAUST FANS STOCKED

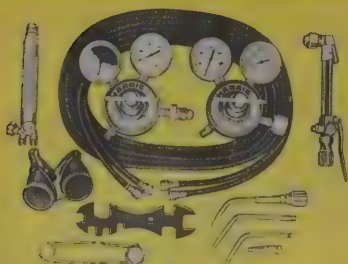
You can get fans for any type of commercial, industrial or farm building ventilating requirement at our rainger's. Large stocks of most widely-used types of fans are maintained — belt-driven, direct-driven, reversible-flow, roof-type, shutter-



mounted, guard-mounted, tubeaxial, etc.—also a complete line of blowers for ventilating, heating and cooling—all listed in this MotorBook. You can rely on the Dayton brand for quality construction at low price. See Index under Fans or Blowers.

HARRIS INDUSTRIAL WELDING/CUTTING OUTFITS

Single and Two-Stage. Cut, Weld, Heat, Braze, Flame Harden and Solder



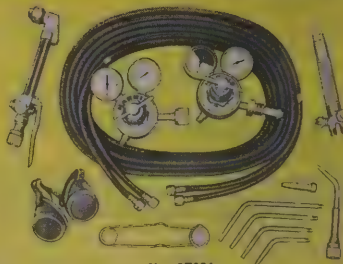
No. 22986

\$181.11

These industrial welding and cutting outfits include brass welding handle and cutting attachment with forged heads, tails, and triangular tube construction for long life. Equal pressure mixer and welding tips provide easy, safe operation. Swaged copper welding and cutting tips produce good flame characteristics and visibility. Durable "O" ring seals between welding handle and attachment assures easy interchangeability and perfect seals without use of tools. Harris brand.

No. 22986. HEAVY DUTY TWO-STAGE WELDS TO 1" THICK, CUTS TO 6" THICK

Two-stage regulators eliminate frequent adjusting as cylinder pressure drops. Regulators have 2½" dia. gauges for easy reading and durable Lexan covers to resist damage. Comes with striker, coverall goggles, 9-way wrench, 20 ft. of twin hose with brass fittings, instructional manual, welding tips Nos. 3, 5, 7 and cutting tip No. 1. Nos. 22986 and 22985 are identical in appearance, except No. 22986 has 2-stage regulators.



No. 22984

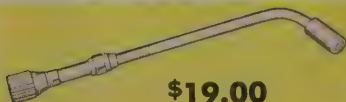
\$141.75

**No. 22985. HEAVY DUTY SINGLE-STAGE
WELDS TO 1" THICK, CUTS TO 6" THICK**
Large diaphragm single-stage regulators have easy to read 2½" gauges and durable Lexan covers to resist damage. Comes with strike coverall goggles, 9-way wrench, 20 ft. of twin hose, instructional manual, and welding tips Nos. 3, 5, 7.

**No. 22984. MEDIUM DUTY SINGLE-STAGE
WELDS TO 1/2" THICK, CUTS TO 4" THICK**
Brass forged, single-stage regulators have large "T" bars for simple adjustment, even with gloves on, and easy to read 2" gauges with Lexan covers to resist damage. Comes with strike coverall goggles, 20 ft. of twin hose, instructional manual and welding tips Nos. 3, 5, 7.

Stage	Stock No.	Retail	Each	Shpg Wt.
2	22986	\$269.00	\$181.11	22
1	22985	249.00	161.30	20
1	22984	189.00	141.75	14

HEATING ASSEMBLY



\$19.00

Oxy-acetylene multi-flame heating assembly provides fast, easy heating of any material for bending, straightening, or forging prior to fabrication. Safe equal pressure design allows a maximum of 81,000 BTUs per hour. Harris brand. Shpg. wt. 1½ lbs.

No. 22987. Harris Multi-Flame Heating Assembly. Retail \$25.00. Each **\$19.00**

FLASH GUARD CHECK VALVE

\$8.83

Per Pair



Permanently mounted on torch to prevent reverse flow. Opens to allow full flow at minimum of 4 ounces of pressure, but closes instantly flow reverses at 10 ounces of back pressure. Produces adequate flow volume to cut 12" steel plate. Fits all makes of torches. Harris brand. Shpg. wt. 2 oz.

No. 6X455. Harris Flash Guard Check Valve. Retail \$12.00. Per Pair **\$8.83**

Full-Fact Dayton Motor Carton Label Makes Stocking and Selection Easier



Over 800 Dayton motor types have Full-Fact carton label illustrated. The Dayton label illustrates and identifies the specifications clearly, for easy reference by dealer and user. This information aids in proper selection, simplifies order filling, and helps prevent misapplications and returns to dealers. Aside from the obvious utility, Dayton Full-Fact labels, and the distinctive white Dayton carton, reflect pride in the product, and assure the buyer of quality and the integrity of the maker.

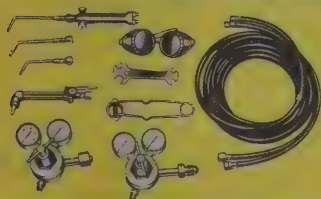
OXY-ACETYLENE WELDING & CUTTING EQUIPMENT

Single and Two-Stage, Full-Size Regulators. Complete Outfits—Each Unit Includes Check Valves

Dayton



Quality Dayton welding and cutting outfits for factories, sheet metal and welding shops, garages, service stations, plumbers, body shops, scrapping, construction, farm and home use. Double O ring torch construction allows operator to interchange tips without a wrench or rotate tips and cutting attachments to any angle, while maintaining perfect gas seal. Solid copper alloy welding tips have individual mixers on each tip for more efficient long-cone flame. Regulators are full-sized, highly accurate and made to stand up under severe service. UL listed. Dayton brand.



1-STAGE LIGHT DUTY \$122.70 WELDING & CUTTING

Welds to 3/4" Thick, Cuts to 4" Thick

COMPLETE OUTFIT INCLUDES:

Torch Handle
Cutting Attachment with Size 2 Tip
Three Welding Tips with Mixers
Single-Stage Oxygen Regulator
Single-Stage Acetylene Regulator
12 1/2 Ft. Dual Hose with Fittings
Goggles, Wrench, Torch Lighter and Instructions. UL listed. Dayton brand. Shpg. wt. 12 lbs.
No. 2Z359. Retail \$159.95. Each.....\$122.70

REPLACE. OXY-ACETYLENE CUTTING TIPS
On all Outfits on this Page Except No. 2Z359
Built with four preheat jets to assure economical and efficient cutting and welding. 4 oz.

Size	Cutting Range	Stock No.	Retail	Each
0	Up to 1/4"	2Z316	\$9.95	\$8.96
1	1/4" to 1/2"	2Z317	9.95	8.96
2	1/2" to 1 1/4"	2Z318	9.95	8.96
3	1 to 2 1/4"	2Z319	9.95	8.96
4	1 1/4" to 4"	2Z320	9.95	8.96

ARC WELDING HELMET

\$8.58 Lots 6



Strong fiberglass helmet resists heat and weld spatter. Lens holder molded into shell prevents light leaks. Has sweatband and pin-stop for helmet angle. Large headgear knob for easy adjustment, even with gloves on. Fed. Spec. lens, No. 10 shade. Welshgard brand (8200-M10). Wt. 1 lb.

No. 4X635. Retail \$15.10. Each \$9.90; lots 6, \$8.58

2 x 4 1/4" REPLACEMENT LENS, NO. 10 SHADE

No. 4X635. Welshgard brand (M10). Wt. 3 oz.

No. 5X612. Retail \$0.78. Each 65¢; lots 12.....57¢

2 x 4 1/4" CLEAR COVER PLATE

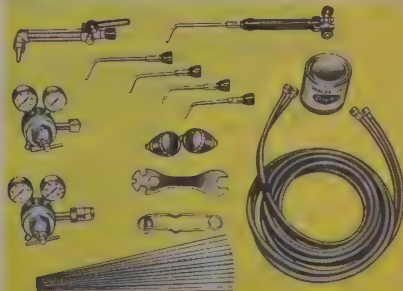
No. 4X635. Welshgard brand (NNN). Wt. 2 oz.

No. 5X614. Retail \$0.34. Each 29¢; lots 12.....25¢

Pages With New Products Marked

Black bar on edge marks pages with products that are new to this issue of Grainger's MotorBook. Check marked pages for new items that can help you save time, work and money.

NEW



2-STAGE HEAVY DUTY \$166.60 WELDING & CUTTING

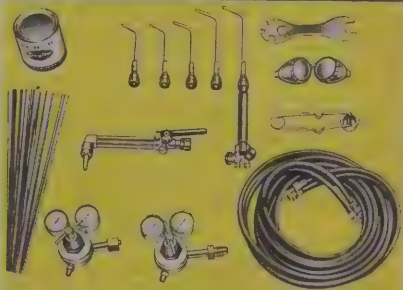
Welds to 1" Thick, Cuts to 6" Thick. Maintains Pressure Regardless of Level in Tank

COMPLETE OUTFIT INCLUDES:

Torch Handle
Cutting Attachment with Size 41 Tip
Welding Tips with Mixers—Nos. 1 thru 5
Two-Stage Oxygen Regulator
Two-Stage Acetylene Regulator
25 Ft. Dual Hose with Fittings

50 mm. Goggles, Wrench, Torch Lighter, 1 lb. Flux, Rod Assortment and Instruction Manual. UL listed. Dayton brand. Shpg. wt. 20 lbs.

No. 2Z357. Retail \$199.95. Each.....\$166.60



1-STAGE MEDIUM DUTY \$147.93 WELDING & CUTTING

Welds to 1" Thick, Cuts to 6" Thick

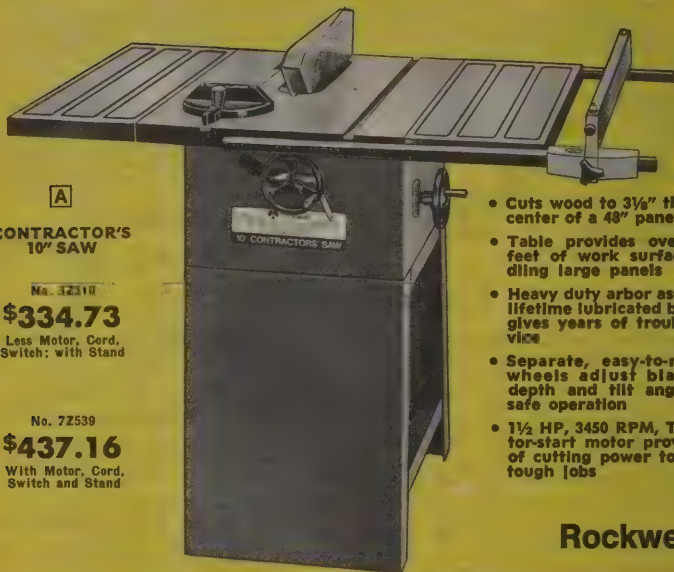
COMPLETE OUTFIT INCLUDES:

Torch Handle
Cutting Attachment with Size 41 Tip
Welding Tips with Mixers—Nos. 1 thru 5
Single-Stage Oxygen Regulator
Single-Stage Acetylene Regulator
25 Ft. Dual Hose with Fittings

50 mm. Goggles, Wrench, Torch Lighter, 1 lb. Flux, Rod Assortment and Instruction Manual. UL listed. Dayton brand. Shpg. wt. 19 lbs.

No. 2Z358. Retail \$179.95. Each.....\$147.93

CONTRACTOR'S 9 & 10" TILTING ARBOR



A
**CONTRACTOR'S
10" SAW**

No. 32510
\$334.73
Less Motor, Cord,
Switch; with Stand

No. 72539
\$437.16
With Motor, Cord,
Switch and Stand

- Cuts wood to 3½" thick, rips to center of a 48" panel
- Table provides over 7 square feet of work surface for handling large panels
- Heavy duty arbor assembly with lifetime lubricated ball bearing gives years of trouble-free service
- Separate, easy-to-reach hand wheels adjust blade cutting depth and tilt angle for fast safe operation
- 1½ HP, 3450 RPM, TEFC capacitor-start motor provides plenty of cutting power to handle the toughest jobs

Rockwell

ROCKWELL TILTING ARBOR POWER SAWS

Furnished with saw stand, self-aligning rip fence, guide bars, see-thru blade guard with splinter and anti-kickback attachment, table insert, miter gauge, blade and blade wrench. 4/8" arbor. Rockwell brand.

A 10" CONTRACTOR'S SAW. Has heavy duty arbor assembly with lifetime lubricated ball bearings. Separate hand wheels provide accurate control over depth of cut and arbor tilt angle. 12¼" table distance in front of blade. Extension wings, drive belt, arbor and motor pulleys included. Order with or without 1½ HP, 3450 RPM, 115V, 60 Hz, TEFC ball bearing capacitor-start motor; junction box with On-Off toggle

switch, 4 ft. of 14 AWG 3-cond. cord from box to motor and 8 ft. from motor to power outlet.

B 9" CONTRACTOR'S SAW. Has up front controls, heavy duty stamped steel wings and lifetime lubricated ball bearings. 11¼" table distance in front of blade. Big 24" rip capacity right and left of blade. Extension wings, drive belt, arbor and motor pulleys included. Order with or without 1 HP, 3450 RPM, 115V, 60 Hz thermal protected, TEFC ball bearing capacitor-start motor; junction box with On-Off toggle switch, 4 ft. of 14 AWG 3-cond. cord from box to motor and 8 ft. from motor to power outlet.

CONTRACTOR'S SAWS SPECIFICATIONS

Saw	Table Dimensions		Cutting Capacities			Overall Dimensions, in Inches			
	With Extension	Distance in Front of Blade	Depth of Cut @ 90°	Depth of Cut @ 45°	Rip Right or Left	Height With Stand	Height Without Stand	Width	Depth
10"	27 x 40"	12¼"	3½"	2½"	24"	37"	18"	37"	30"
9"	22 x 30"	11¼"	2¾"	2"	24"	34½"	17½"	37½"	36"

Fig.	Mfrs. Model	Stock No.	PRICE LESS MOTOR Retail	Each	Shpg. Wt.	Stock No.	PRICE WITH MOTOR* Retail	Each	Shpg. Wt.
A	34-348	32510	\$389.99	\$334.73	220	72539	\$529.95	\$437.16	239
B	34-618	32599	279.45	237.55	130	72537	374.98	322.31	147

(*) Includes cord set with On-Off toggle switch and junction box.

NEMA STANDARDS ON ELECTRIC MOTORS LISTED HEREIN

Electric motors listed in this catalog are manufactured to the dimensional, performance, and electrical standards established by NEMA (National Electrical Manufacturers Association).

POWER SAWS, 14" BAND SAW AND MITER BOX



CONTRACTOR'S 9" SAW

No. 3Z599

\$237.55

Less Motor, Cord, Switch; with Stand

No. 7Z537

\$322.31

With Motor, Cord, Switch and Stand

**ALL ROCKWELL SAWS
INCLUDE FLOOR STAND**

NEW

CONTRACTOR'S BAND SAW

No. 3Z598

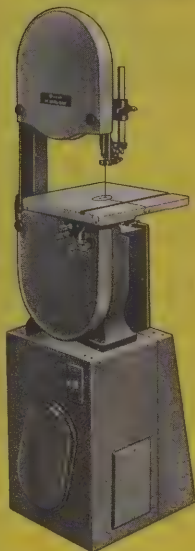
\$362.27

Less Motor, Cord, Switch; with Stand

No. 7Z538

\$446.54

With Motor, Cord, Switch and Stand



ROCKWELL CONTRACTOR'S 14" WOODCUTTING BAND SAW

Precision band saw cuts stock a full 6 1/4" thick. Can be used for contour cutting, straight cutting or resawing. Upper and lower guides just independently to micrometer accuracy. Aluminum wheels. Blade length is 93 1/2" and distance from blade to frame 13 3/4". Blade speed is 90 FPM with standard pulleys and optional motor. Large 14 x 14" table tilts 45° to right for level cutting. Table grooved for miter gauge, machined for rip fence. Direct reading blade tension scale. Dimensions: 65 1/2" H x 25" W x 17 1/2" D. Furnished with blade, floor stand, drive belt, motor and pulleys. Order with or without HP motor. Rockwell brand (28-285).

14" CONTRACTOR'S BAND SAW LESS MOTOR
No. 3Z598. Shpg. wt. 196 lbs. Retail \$429.99.
Each\$362.27

14" CONTRACTOR'S BAND SAW WITH MOTOR.
No. 3Z598 band saw with 1/2 HP, 1725 RPM, 115V, 60 Hz, 9.6 full load amps, ball bearing Dayton TEFC capacitor-start motor. Includes junction box with On-Off toggle switch, 4 ft. of 3-cond. cord from box to motor and 8 ft. from motor to power outlet. Motor, cord and switch packed separately. Shpg. wt. 212 lbs.

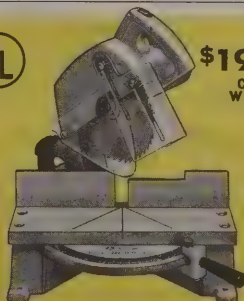
No. 7Z538. Retail \$514.98. Each.....\$446.54

Rockwell POWER MITER BOX

9" Diameter Blade Miters 2 1/2 x 3 5/8" Work

For fast, accurate square cuts and mitering in wood, plastics and other materials. Built-in 1.5 amp, 115V, 60 Hz, 7000 RPM motor delivers full 1 1/2 HP to the blade and work. Lifetime lubricated ball bearing construction. 5/8" arbor. Push-button blade brake and see-thru blade guard for operator safety. Capacities: 2 1/2 x 4" work at 90° crosscut; 2 1/2 x 3 5/8" work at 45° miter; 5/8 x 3 5/8" work at 45° miter on edge. Meter scale has positive stops at 90° and 45° right or left. Table size 4 x 17". Overall dimensions 19 W x 20 D x 22" H. Supplied complete with motor, 9" blade and blade wrench. Rockwell brand (34-010). Shpg. wt. 46 lbs.

No. 3Z511. Rockwell Power Miter Box. Retail \$29.99. Each.....\$198.42

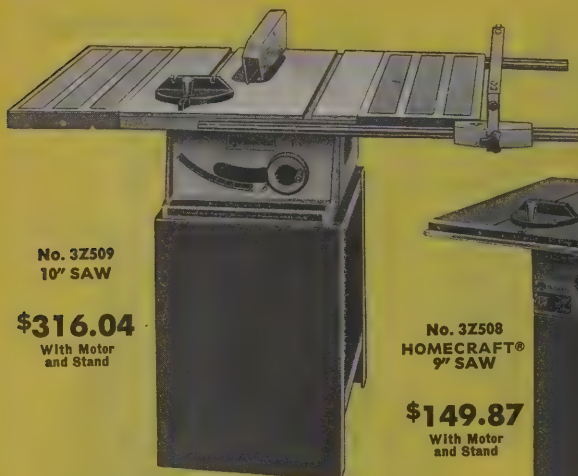


\$198.42

Complete With Motor

HOMECRAFT® 9, & 10" TILTING ARBOR POWER SAWS

Rockwell



**No. 3Z509
10" SAW**

\$316.04

With Motor
and Stand



**No. 3Z508
HOMECRAFT®
9" SAW**

\$149.87

With Motor
and Stand

**ALL ROCKWELL SAWS
INCLUDE FLOOR STAND**

These sturdy power saws are built for home workshop applications. They come fully equipped with saw stand, self-aligning rip fence, guide bars, see-thru blade guard with splinter and anti-kickback attachment, table insert, miter gauge, blade and blade wrench. $\frac{5}{8}$ " arbor.

No. 3Z509. 10" SAW. Fully enclosed drive mechanism, sealed ball bearing construction. Single up-front control for blade depth and arbor tilt.

16" table distance in front of blade. Includes tensions, drives and 1-1/5 HP, 5400 RPM, 115 60 Hz, 13.0 amps, thermal protected motor. 1 listed. Rockwell brand.

No. 3Z508. 9" HOMECRAFT® SAW. Ball bearing construction. 12" table distance in front of blade. Includes drive and 3/4 HP, 3450 RPM, 115V, Hz, 13.0 amps, thermal protected motor. 1 listed. Rockwell brand.

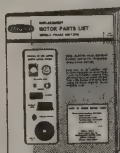
POWER SAWS SPECIFICATIONS

Saw	Table Dimensions		—Cutting Capacities—			Overall Dimensions, in Inches			
	With Extension	Distance in Front of Blade	Depth of Cut @ 90°	Depth of Cut @ 45°	Rip Right or Left	Height With Stand	Height Without Stand	Width	Depth
10"	27 x 40"	16"	3 1/4"	2 1/8"	24"	35	16	37	30
9	22 x 32	12	2	1 3/8"	15	33 1/2	13 1/2	37	17

Saw	—Motor—				Mfrs. Model	Stock No.	Retail	Each	Ship Wt.
	HP	Volts 60 Hz	RPM	Amps					
10"	1 1/2	115	5400	13.0	34-345	3Z509	\$349.99	\$316.04	18
9	3/4	115	3450	13.0	34-580	3Z508	179.95	149.87	10

FACTORY PARTS FOR DAYTON MOTORS AVAILABLE FROM STOCK

Genuine Dayton replacement parts are available from large Chicago stock. Same day shipping service. Single phase Dayton motor parts include: Centrifugal Switches (rotating & stationary), Bearings, Capacitors, Overload Protectors, Internal & External Fans, Capacitor



Covers, etc. Include Dayton motor stock and model number on order and send to nearest Grainger address.

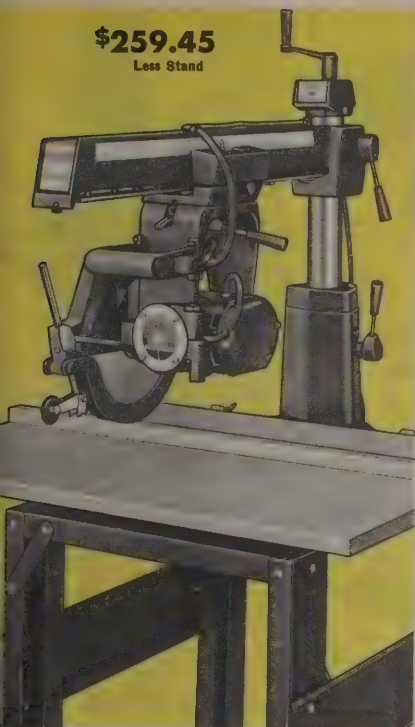
Dayton Motor Parts List No. 5S104C is available to motor repairers—request copy from your Grainger salesman or Sales Office/Warehouse.

SHOPCRAFT 10" RADIAL ARM SAW

Crosscuts a Dressed 4x4 in One Pass. All Ball Bearing Motor Develops 2 HP

\$259.45

Less Stand



A powerful, efficient saw for use in woodworking shops, home workshops, or at the job site. Ball bearing, open, fan-cooled, universal, AC/DC, 115V motor develops a full 2 HP at 5000 RPM. Safety features include motor slip clutch to help prevent hazardous kickback, On-Off key and power control handle switch, plus rapid 9-second blade spin-down. Saw yoke moves on 4 ball bearings in 360° rotation, has 45 and 90° stops for inboard or outboard ripping. Automatic bevelling and mitering stops at 45 and 90°, with intermediate miter scale. Large capacity 10" blade, 5/8" arbor. Top handle adjusts saw height from tabletop. 24½ x 36" worktable has 3-position fence and is mounted on 4 levelling screws. Complete with motor, blade, rip fence, gauges, and detachable guard with sawdust ejection duct and anti-kickback attachment. UL and CSA listed. Shopcraft brand (SC5110). Wt. 101 lbs.

10" RADIAL ARM SAW, LESS STAND

No. 3Z324. Retail \$299.95. Each.....\$259.45

GENERAL SPECIFICATIONS

Description	10" Radial Arm Saw
Output Rating:	2 HP, 5000 RPM
Bearings:	Ball Bearing
Depth of Cut:	3 7/8" at 90°, 2 3/4" at 45°
Crosscut Capacity:	1" Stock x 16", 2" Stock x 12"
Blade Size:	10", 5/8" Rd. Arbor
Rip Capacity:	Outboard: 0 to 27 1/4" Inboard: 0 to 16 3/4"
Bevel & Miter Levers:	45, 90°—Left & Right
Motor Positions:	Horizontal: Complete 360° Vertical: Complete 360°
Elevating Handle:	1/8" Each Complete Turn

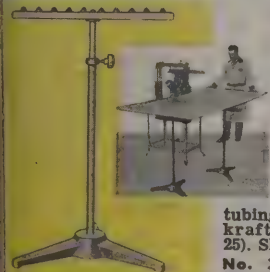
STAND FOR RADIAL ARM SAW

Heavy 16 ga. steel construction provides solid support for Shopcraft Radial Arm Saw above. Overall dimensions 32 1/4" H x 20 3/4" W x 25" L. Shopcraft brand (8Z500). Shpg. wt. 36 lbs.

No. 2Z522. Retail \$45.35. Each.....\$34.43

WORK SUPPORT STAND

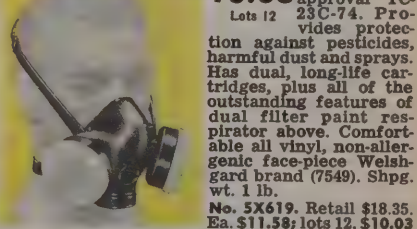
\$22.14



Has 10 rolling ball casters mounted on 18" arm for moving work in all directions. Adjustable from 28 to 52" high. Cast iron base, steel tubing shaft. Toolkraft brand (STD-25). Shpg. wt. 16 lbs. No. 3Z296. Retail \$29.95. Each.....\$22.14

DUAL FILTER RESPIRATOR

\$10.03



Has NIOSH approval TC-23C-74. Provides protection against pesticides, harmful dust and sprays. Has dual, long-life cartridges, plus all of the outstanding features of dual filter paint respirator above. Comfortable all vinyl, non-allergic face-piece Welsh-gard brand (7549). Shpg. wt. 1 lb. No. 5X619. Retail \$18.35. Ea. \$11.58; lots 12, \$10.03

REPLACEMENT CARTRIDGES & FILTERS

Pkg. of 4 cartridges and 8 pre-filters for No. 5X619 respirator. Shpg. wt. 1 lb. No. 5X620. Retail \$13.65. Each \$8.69; lots 6, \$7.53

Nation-Wide Stocks—Fast Delivery

There are over 130 Grainger sales office-warehouses like the one that serves you. All carry large stocks of most items in this MotorBook. Extensive central back-up stocks assure prompt delivery.

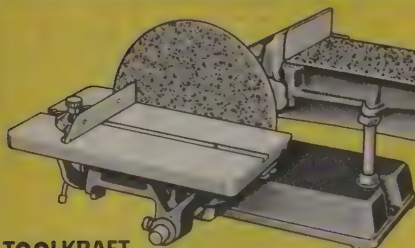
BROAN FANS—LARGE LINE STOCKED



Grainger's is your best 1-stop source for the most popular Broan kitchen fans, range hoods, bathroom units and installation accessories. Widely used in new construction and remodeling—easiest to install. MotorBook lists over 50 Broan units; see Index under Kitchen Fans.

COMBINATION 6" BELT — 9" DISC SANDER

Handles Work of all Sizes and Shapes—Curves, Angles, Edges, Flat Surfaces, etc.



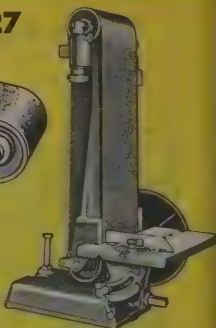
\$141.27
Less Motor

TOOLKRAFT

A versatile sander for tradesmen or home workshop enthusiasts. 6¼ x 12" locking work table tilts to 45°—has graduated scale to show angle of tilt. Machined cast iron fence supports work when operating belt in horizontal position. Belt is easily changed by loosening tension knobs and sliding off. Overall dimensions 27 L x 9½ W x 10¼" H. Recommended drive (not incl.): 5K984—1/2 HP, 115V, AC motor; 3X763—2.20"OD pulley; A-section V-belt (4L). Uses 9" abrasive discs, 6 x 48" abrasive belts. Toolkraft brand (335A). Shpg. wt. 58 lbs.

No. 3Z293. Sander. Retail \$154.95. Each...\$141.27

Belt operates in horizontal or vertical position. Work table and graduated miter gauge can be used with disc or with belt in vertical position.



STAND FOR SANDER

For No. 3Z293 sander. Height 31". Top dimensions 14¼" x 17½". Toolkraft brand (STD-4). Shpg. wt. 18 lbs.
No. 3Z298. Stand. Retail \$34.95. Each...\$27.89

ABRASIVE BELTS & DISCS FOR NO. 3Z293 SANDER

6 x 48" BELTS, PACKAGE OF 5

Fits Toolkraft combination belt-disc sander above, and other makes using this size belt. Dayton brand. Shpg. wt. 3 lbs.

Grit	Type	Stock No.	Retail	Each Pkg.	Lots 4 Pkg's.
50	Coarse	5X501	\$15.34	\$10.74	\$9.97
80	Medium	5X502	15.26	10.68	9.92
120	Fine	5X503	15.26	10.68	9.92

9" ADHESIVE-BACK DISCS, PKG. OF 5

Fits Toolkraft combination belt-disc sander above, and other makes using this size disc. Self-adhesive back. Dayton brand. Shpg. wt. 1 lb.

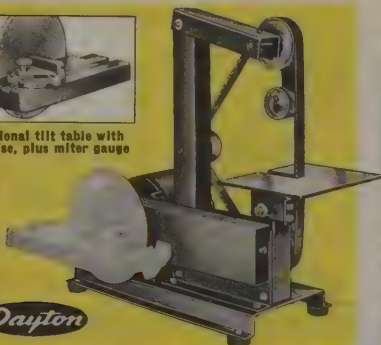
Grit	Type	Stock No.	Retail	Each Pkg.	Lots 4 Pkg's.
50	Coarse	5X504	\$6.14	\$4.30	\$3.99
80	Medium	5X505	6.14	4.30	3.99
120	Fine	5X506	6.14	4.30	3.99

1/3 HP MULTI-PURPOSE SANDER-GRINDER

1" Sanding Belt Adjustable to Handle Internal and External Precision Work



Optional tilt table with 8" disc, plus miter gauge



Dayton

\$64.35

Less Motor, With 7x8½" Worktable

For deburring, precision grinding, sharpening tools and similar uses in tool rooms, maintenance shops, etc. Has 1 x 42" 80 grit sanding belt. Both internal and external work can be done by changing belt position with upper idler pulley. Adjustable platen behind belt facilitates precision grinding. Spring loaded belt tension device. 7¼" belt clearance to column. 2000 SFPM belt speed. Belt safety guard. Prelubricated ball bearing construction. Cast iron, precision ground 7 x 8½" worktable. Heavy gauge steel frame on sturdy platform base for bench service. 10 W x 21 H x 18" D. Motor pulley and belt included. Dayton brand. Shpg. wt. 29 lbs.

SANDER-GRINDER LESS MOTOR

No. 2Z646. Retail \$89.95. Each...\$64.35

SANDER-GRINDER WITH MOTOR

No. 2Z646 Sander-Grinder with 1/3 HP, 1725 RPM, 115V, 60 Hz Dayton split-phase motor. Motor packed separately. Shpg. wt. 46 lbs.
No. 7Z423. Retail \$129.95. Each...\$91.85

DIRECT DRIVE 8" DISC & TILT TABLE

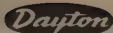
4½ x 12" table tilts down to 45°. 8" disc has 100 grit abrasive, attaches to motor shaft. Table grooved for 2Z468 miter gauge (not incl.). 10 lbs.

No. 2Z647. Retail \$29.95. Each...\$21.67

MITER GAUGE FOR No. 2Z647

Provides added versatility—swings 0° to 45° each way for angular and compound angles. Precision construction. Shpg. wt. 1 lb.

No. 2Z648. Retail \$7.50. Each...\$5.84



1 and 2" WORKSHOP BELT SANDERS

Multi-Purpose Machines for Home Workshop Use. All-Steel Construction

A

1" VERTICAL SANDER

\$36.59

Less Motor

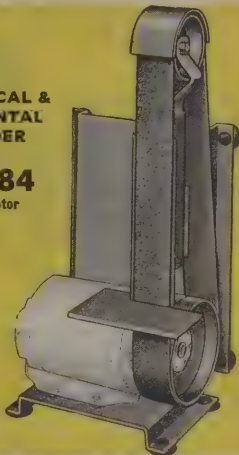


B

2" VERTICAL & HORIZONTAL GRINDER

\$63.84

Less Motor



Motor is direct-coupled to drive pulley on either unit

A 1" VERTICAL BELT SANDER—For hard-to-reach narrow surfaces on wood or metal. Upper pulley rides on sealed ball bearings and is spring-loaded to maintain tension on belt for true tracking and easy belt changes. Motor with $\frac{5}{8}$ " shaft (not included) is direct-coupled to driving pulley. 4 x 6" worktable tilts 45 to 90°. Rubber suction feet. 1 x 42" belt included.

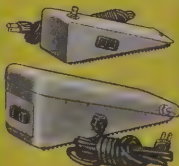
B 2" HORIZONTAL-VERTICAL BELT SANDER—Similar to 1" belt sander. Motor (not included) with $\frac{5}{8}$ " shaft is direct-coupled to driving pulley. Has adjustable 4 x 6" stock rest. Operates in horizontal or vertical position. 2 x 48" belt included. Additional belts are available on special order, at extra cost. Order from nearest Granger location for fastest shipping service.

1 x 42" Abrasive Belts—See Index Under Sandpaper

Fig.	Belt Width	Belt Length	Sanding Surface	Recommended Motor HP	H	Dimensions W	L	Stock No.	Retail	Each	Shpg. Wt.
A	1"	42"	1x6"	1/4	19 $\frac{3}{8}$ "	9 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	22574	\$49.95	\$36.59	11
B	2	48	2x10	1/2	23 $\frac{1}{8}$ "	9 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	22639	79.95	63.84	21

FOOT SWITCHES for TOOLS

Low-cost, dependable foot switches for power tools, etc. Maintains contact on readable pressure. Steel housing. Non-skid rubber base. 2-wire output. 8 ft. cord, except No. 2X981 has 12 ft. wire cord and 3-wire receptacle. Not designed for hazardous locations. Supplied in attractive display box. Dayton brand.



P Amps	Cord	Stock						
ax. 115V	Set	No.	Retail	Each	Lots 8	Shpg. Wt.		
3 6	18/2	2X251	\$10.80	\$7.56	\$7.02	8 oz.		
2 10	16/2	2X422	16.02	11.21	10.41	2		
2 10	18/3	2X981	17.73	12.41	11.52	2		
2 20	16/2	2X589	19.78	13.85	12.86	2 1/2		

SPRAY PENETRATING OIL

Aerosol spray that unlocks frozen or rusted movable metal parts in seconds, also lubricates tight-fitting places. Specially formulated material gives thorough penetration and fine control. Harmless to painted surfaces. 12 3/4 oz. pressurized can. Dem-Kote brand. Shpg. wt. 6 3/4 lbs. per ctn. of 6.

No. 2X725. Each \$1.10; lots 6.....98c



KEYHOLE SAW KIT

Cuts Most Materials. Three Blades Included



\$5.19

Lots 3

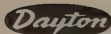


A versatile saw for carpenters, electricians, plumbers, home owners, farmers and others. Cuts practically any material, including steel, iron, wood, plastic, nails, metal lath, asbestos boards, etc. Top quality features include contoured, die-cast handle assembly for easy, one-handed sawing action; knurled tension nut for fastening and removing blade; and quick rotation of blade to eight locking positions.

Includes three 12" blades: One 10-tooth combination wood/metal-cutting blade, one 24-tooth metal-cutting blade, and one 7-tooth wood-cutting blade. Meets Federal spec. GGG-S-0065b, Type 15. Dayton brand. Shpg. wt. 1 1/4 lbs.

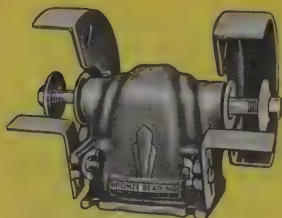
No. 6X444. Dayton Keyhole Saw Kit. Retail \$7.99. Each \$5.59; lots 3.....\$5.19

Quick, Friendly Service—Lowest Prices



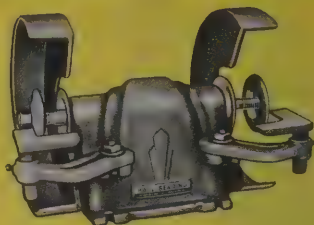
BELT-DRIVEN POLISHING & GRINDING UNITS

Equipped with V Pulley. Can be Power-Driven from Below or Behind Unit



6" UNIT

\$10.11 Lots 4



8" UNIT

\$22.74 Lots 4

Efficient, belt-driven units for grinding, buffing or wire-wheel finishing work. V pulley is located inside open-back base; motor drive can be located either below or behind unit. Cast iron base, accurately machined parts. Gray finish. Order A belt, motor and wheels separately. Dayton brand.

6" UNIT has self-lubricating bronze bearings, 6" wheel guards, tool rests and $\frac{1}{2}$ " x 20 thread on spindle ends. For wheels up to 6" dia. x 1" W.
8" UNIT has heavy duty ball bearings, adjustable tool rests, 8" wheel guards and $\frac{5}{8}$ " x 11 thread on spindle ends. For wheels up to 8" diameter x $1\frac{1}{2}$ " wide.

Diameter	V Pulley	Spindle Dia.	Long	Base Size	Mounting Holes O.C.	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6"	2"	$\frac{5}{8}$ "	10"	$4\frac{1}{2}$ x $5\frac{1}{8}$ "	$3\frac{1}{2}$ x $3\frac{1}{8}$ "	4X036	\$19.95	\$10.97	\$10.11	11
8"	2"	$\frac{3}{4}$ "	13	5x7	$4\frac{3}{8}$ x $5\frac{3}{8}$ "	4X399	39.95	24.65	22.74	25



TOOL STAND

For Dayton Grinders & Other Power Tools

For Dayton professional service bench grinders, plus many other makes of grinders, and other power bench tools. Pre-drilled $8\frac{3}{8}$ " square steel top plate. $3\frac{1}{2}$ " diameter steel column, cast iron base with mounting holes. Holds up to 400 lbs. Measures 32" high. Pope brand. Wt. 41 lbs.

No. 1Z969. Retail \$53.75. Each \$37.63

GRINDING WHEEL DRESSER



Trues, sets, shapes and removes glaze from grinding wheels. Has two sets of $1\frac{1}{4}$ " dia high carbon steel cutters. Accurate and easy to use. Cast iron holder.

Lots 4 Dayton brand. Shpg. wt. $1\frac{1}{4}$ lbs.
No. 2X951. Retail \$2.69. Each \$2.32; lots 4, \$1.94

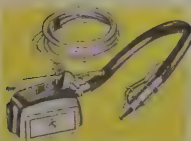


BUFFING WHEELS

Strong cloth sewed spirally $\frac{3}{8}$ " apart from outside edge. $\frac{1}{4}$ " thick. $\frac{1}{2}$ " bore. Used for finest polishing jobs. Dayton brand. Shpg. wt. 4 oz

Dia.	Stk. No.	Retail	Each	Lots 5
6"	2X432	\$1.20	\$0.90	\$0.84
8"	2X433	1.60	1.20	1.12

SPRAY MIST COOLER



Delivers mixture of air and water, or other coolant for speeding work, extending tool life. Has 6 ft. coolant tube and 12" spray hose. Uses 15 to 100 PSI air. $\frac{1}{4}$ " IPT connection. Magnets for mounting. Dayton brand. $1\frac{1}{4}$ lbs.

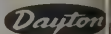
No. 4X663. Spray Mist Cooler. Retail \$42.00. Each \$29.46; lots 6 \$24.55

GRINDER SAFETY SHIELDS



\$6.03

Per Pair
Lots 3



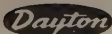
3 x 5" eye shields fit Dayton Production grinder Nos. 1Z707, 1Z853, 2Z315, 2Z341, 2Z342, 2Z425 2Z144; and Tradesman grinders Nos. 2Z374 2Z426. Protect eyes from sparks and chips. Safety glass inserts, plated steel frames. Dayton brand. Shpg. wt. 1 lb.

No. 4X868. Dayton Safety Shields. Retail \$12.45 Pair \$6.73; lots 3 Pair \$6.03

VITRIFIED GRINDING WHEELS

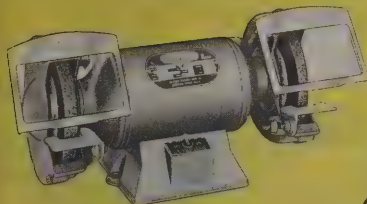
Made of aluminum-oxide grain and vitrified in long-cycle kilns. Comply with ANSI Safety Code B7-1. In sizes from 5 to 10" diameter. See Index under Grinding Wheels.

YOU CAN GET SAME-DAY SHIPPING SERVICE ON MOST ITEMS IN THIS MOTORBOOK

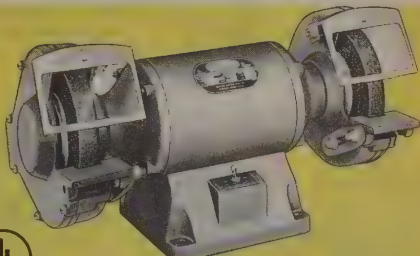


PRODUCTION BENCH GRINDERS

6 to 10" Wheel Size, 1/4 to 1 HP, 115, 230, 440VAC, Single or 3-Phase.
Designed to Meet OSHA Requirements for Normal Duty Applications



6" GRINDERS **\$68.86**
No. 22425



7, 8 and 10" GRINDERS **\$121.23**
No. 22341

Quality-built grinders for rugged, continuous work in factories, foundries, garages, machine shops, etc. Motors are totally enclosed to keep out dirt and grit, have shielded ball bearings for smooth operation under full load. Nos. 22425 and 22341 have split-phase motors; all others are capacitor-start. Rotor/shaft assemblies are dynamically balanced for even rotation. Motor housings are compact so long pieces of work can be pressed against both wheels. Ample side clearance. 1/2, 3/4 and 1 HP grinders have heavy

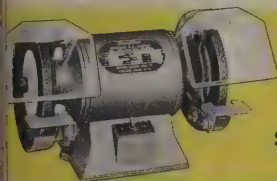
die cast aluminum guards and shields, plus tool rests and spark arrestors. 1/4 and 1/3 HP units have steel shields, tool rests and spark arrestors. All have provisions for mounting No. 4X868 eye shields (included). Furnished with one each 36 grit and 60 grit vitrified grinding wheels, both ANSI approved. Provision for dust collection attachment on 3/4 and 1 HP models. Single-phase units have 3-cond. cord sets, On-Off switch in base. 3-phase models have conduit box. Blue-Gray. UL and CSA listed.

Wheel Dia.	Dimensions Face Arbor	Wheels C to C*	Overall Length		Ht.	60 Hz Volts		RPM	HP	Stock No.	Retail	Each	Shpg. Wt.
						1-Phase	3-Phase						
6"	5/8"	1 1/2"	12 3/16"	15 1/8"	8 1/4"	115V	—	3450	1/4	22425	\$122.65	\$68.86	27
6"	3/4"	1 1/2"	14 1/2"	17 1/4"	8 1/4"	115V	—	3450	1/3	22315	137.45	78.76	30
7"	1"	5/8"	15 3/16"	19"	8 3/4"	115V	—	3450	1/2	22341	202.55	121.23	41
8"	1"	5/8"	16 1/8"	21 3/8"	10 1/2"	115/230V	—	3450	3/4	12707	242.45	154.44	65
8"	1"	5/8"	17 3/8"	22 3/8"	10 1/2"	—	208-230/440-460	3450	3/4	22342	247.50	149.80	59
10"	1"	3/4"	18 1/8"	23 1/2"	12 3/16"	115/230V	—	1725	1	12853	322.45	205.24	86
10"	1"	3/4"	18 1/8"	23 1/2"	12 3/16"	—	208-230/440-460	1725	1	32144	332.55	199.09	78

* Center-to-center distance between wheels.

6" TRADESMAN GRINDERS

1/4 & 1/3 HP Motor. Aluminum Construction



Dayton

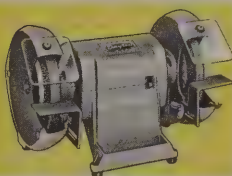
1/4 HP
\$45.60

Built for craftsmen, servicemen and farm use. Permanent split-capacitor 115V, 60 Hz motor operates 1/2" arbor at 3450 RPM. Motor is permanently enclosed to keep out dust, dirt and grit. 5" diameter frame permits pressing long pieces of work against both wheels at same time. As Carborundum grinding wheels in 36 and 60 grit. Die cast aluminum construction with steel case, tool rests and adjustable, plexiglass eye shields. On-Off switch, 6' long 3-cond. cord.

Motor HP	Wheel Size	Stock No.	Retail	Each	Shpg. Wt.
1/4	6 x 1/2"	22374	\$84.95	\$45.60	20
1/3	6 x 3/8"	22426	99.95	59.15	23

5" WORKSHOP GRINDER

1/15 HP Motor. Exhaust Port. Spark Arrestor



Dayton

\$22.53

Designed for the home workshop enthusiast and for light maintenance work. Precision built for accurate, safe

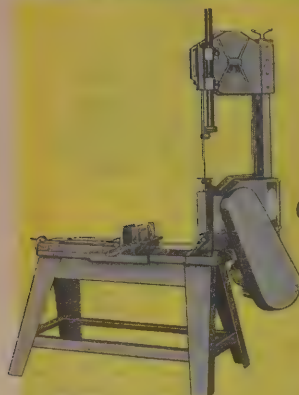
sharpening, shaping, rust removal, etc. Two 5" dia. x 1/2" W x 1/2" bore 60 and 36 grit vitrified wheels. 8 1/2" center distance between wheels. Long pieces can be pressed against both wheels.

Powered by shaded pole 1/15 HP, 3200 RPM, 115V, 60 Hz motor with dynamically balanced rotor. Closed removable end bells. Self-aligning self-lubricating bronze bearings. Husky wheel guards. Adjustable tool rests and snap-on eye shields. Aluminum die cast housing, silver lustre finish. 10 L x 7 H x 7" D. 6 ft. 3-cond. cord. UL and CSA listed. Shpg. wt. 9 1/2 lbs.

No. 22133. 5" Workshop Grinder. Retail \$36.95. Each \$22.53

PRODUCTION METAL-CUTTING BAND SAW

Machine Tool Quality for Production, Tool Room and Maintenance Work
3 Speeds: 69, 117, 221 Ft. per Minute. 7 x 12" Capacity, Rounds to 7" Diameter



**VERTICAL POSITION
AS A BAND SAW**

Dayton

\$639.80

Includes Stand,
Less Motor
Freight Prepaid



**HORIZONTAL POSITION
AS A CUT-OFF SAW**

A top quality machine tool for fast, accurate cutting of all metals and plastics whether used as a horizontal cut-off machine or conventional band saw. Heavy duty bed casting supports two large cast heads which, in turn, support the cast iron wheels and internal gear assembly. This combination of mass and weight makes for vibration-free operation, not possible with saws manufactured from weldments or sheet metal. Peripheral drive mechanism — a combination drive pulley and double reduction gear assembly — delivers full torque smoothly without backlash. Blade guides adjust for blade thickness and vertical alignment; needle cam bearings maintain alignment. Adjustable head for precise blade tension. Vise has large 7 x 12" capacity. Shuts off automatically in cut-off position after completing cut. As a vertical saw, throat depth is 7½", cuts to center of a 14¼" circle. Prewired On-Off switch. Shipped with blade, belt, 3-step pulleys and 3-cond. cord. Floor base shipped unassembled. Dayton brand. Shpg. wt. 351 lbs.

BAND SAW WITH STAND, LESS MOTOR

No. 3Z518. Band Saw With Stand, Less Motor.
Retail \$739.95. Each, freight prepaid.....\$639.80

BAND SAW WITH STAND AND MOTOR

No. 3Z518 production band saw with stand and 3/4 HP, 1725 RPM, 115/230V, 60 Hz Dayton capacitor-start motor. Motor packed separately.
No. 7Z507. Retail \$810.00. Each, freight prepaid\$700.24

GENERAL SPECIFICATIONS

Cutting Capacity	7x12" Rectangles, 7" Rounds 7x8" at 45° Angle
Blade Size	¾" W x .032" T x 101" L
Blade Speeds	Three—69-117-221 FPM
Blade Guides	Sides: Cam Follower Rear: Ball Bearing
Blade Wheels Vise	11½" Diameter, Cast Iron Continuous Screw Type, 5¼" W x 3¾" H. Opens 12"
Overall Length	52"
Overall Width	24"
Overall Height	Horizontal: 50". Vertical: 72"

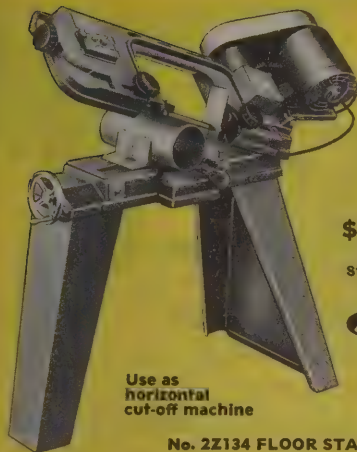
EXTRA METAL-CUTTING SAW BLADES

Flexible tufflex carbon blades with raker teeth for cutting ferrous and non-ferrous metals, hard plastics and other tough materials. Fit Dayton band saw above, plus other makes using same size blade. Dayton brand.

Teeth Per In.	Thick-ness	Long	Wide	Stock No.	Retail	Each	Shpg. Wt.
10	.032"	101"	5⅝"	6X220	\$5.25	\$4.46	10 os.
14	.032"	101"	5⅝"	6X221	5.25	4.46	10 os.

TRADESMAN METAL-CUTTING BAND SAW

3 Speeds—65, 120 or 220 FPM. 4 x 6" Capacity—Rounds to 4½" Dia.



Use as
horizontal
cut-off machine

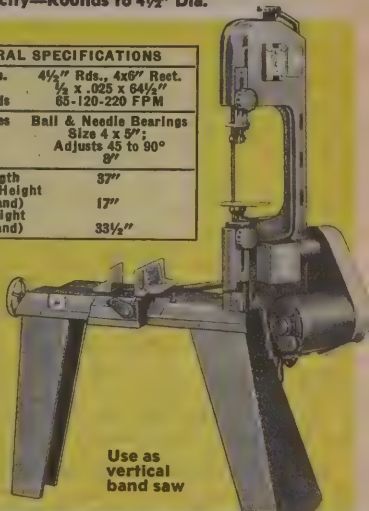
No. 2Z134 FLOOR STAND, \$21.05

\$254.37

Less Motor,
Stand & 10 x 10"
Worktable

Dayton

GENERAL SPECIFICATIONS	
Cutting Cap.	4½" Rds., 4x6" Rect.
Blade Size	½ x .025 x 64½"
Blade Speeds	65-120-220 FPM
Blade Guides	Ball & Needle Bearings
Vise	Size 4 x 5"; Adjusts 45 to 90°
Bed Width	8"
Overall Length	37"
Horizontal Height (without stand)	17"
Vertical Height (without stand)	33½"



Use as
vertical
band saw

Engineered and built for accuracy, durability and safety. Three-step cone pulleys on motor and saw permit selection of proper blade speed. Shuts off automatically in horizontal position after cutting through workpiece. Throat depth 7", cuts to center of 10¾" circle.

Uses standard ½ x .025 x 64½" blade. Enclosed blade-tension control. Precision work-holding vise. Ball bearing worm-gear drive assembly is completely sealed. Balanced blade wheels ride on permanently lubricated bronze bearings. Cast iron construction. Enclosed On-Off switch and belt-pulley drive. Prewired with oil-resistant wire. Shipped with blade, belt, motor pulley and 3-cond. cord. Blue finish. Dayton brand. Shpg. wt. 110 lbs.

BAND SAW LESS MOTOR AND STAND

No. 3Z360. Tradesman Band Saw, less motor and stand. Retail \$349.95. Each.....**\$254.37**

BAND SAW WITH MOTOR, LESS STAND

No. 3Z360 Tradesman band saw complete with 1/3 HP, 1725 RPM, 115V, 60 Hz Dayton split phase motor. Motor packed separately.

No. 7Z408. Retail \$360.00. Each.....**\$280.88**

FLOOR STAND FOR No. 3Z360 BAND SAW

Predrilled, steel floor stand complete with screws—ready to mount. 16 W x 20 H x 30" L. Shipped unassembled. Shpg. wt. 14 lbs.

No. 2Z134. Retail \$34.95. Each.....**\$21.05**

10 x 10" STEEL TABLE FOR No. 3Z360 SAW

Enlarges existing work table when saw is used in vertical position. Precision ground top and bottom surfaces. Shpg. wt. 6 lbs.

No. 2Z577. Retail \$24.95. Each.....**\$14.20**

EXTRA METAL CUTTING SAW BLADES

½ W x 64½" L. Standard & heavy duty.

Teeth Per In.	Type	Thick- ness	Stock No.	Retail	Each	Shpg. Wt.
10	Standard	.025"	2Z137	\$3.49	\$2.96	4 oz.
14	Standard	.025	2Z138	3.49	2.96	4 oz.
18	Standard	.025	2Z139	3.49	2.96	6 oz.
10	Hvy Duty	.020	2Z255	8.69	7.37	6 oz.
14	Hvy Duty	.020	2Z256	8.69	7.37	4 oz.
18	Hvy Duty	.020	2Z377	8.69	7.37	4 oz.

VERTICAL BAND SAW

3 Speeds: 65-120-220 FPM. 7" High Work Capacity

Cast iron construction with precision ¼ x 10 x 10" steel work table, adjustable for cutting to maximum depth of 7". Has 5" throat depth, cuts to center of 10¾" circle. Blade rides on two wheels—one gear driven and one free wheeling. Three-step cone pulleys on motor and saw provide a selection of 3 blade speeds. Uses standard ½ x .025 x 64½" blade. Adjustable blade tension control. Worm-gear drive assembly is sealed in lubricant bath. Overall dimensions: 36½ H x 15 D x 16" W. Shipped complete with blade, built-in On-Off switch, belt, motor pulley, 4 ft. 3-cond. cord. Shpg. wt. 70 lbs.

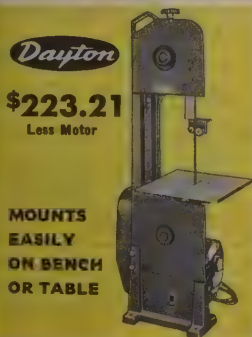
VERTICAL BAND SAW LESS 1/3 HP MOTOR

No. 3Z365. Retail \$309.95. Each.....**\$223.21**

VERTICAL BAND SAW WITH 1/3 HP MOTOR

No. 3Z365 band saw with 1/3 HP, 1725 RPM, 115V, 60 Hz Dayton split phase motor. Motor packed separately.

No. 7Z409. Retail \$320.00. Each.....**\$249.72**



Dayton
\$223.21
Less Motor

MOUNTS
EASILY
ON BENCH
OR TABLE

5 1/2 x 5 1/2" CAPACITY PRODUCTION HACKSAW

Cuts up to 5 1/2" OD Tubing. Uses 12 x 1" Blade. Two-Speed Operation—64 & 90 Strokes/Minute

A versatile, two-speed power hacksaw with capacity for cutting tubing up to 5 1/2" OD, rectangles up to 5 1/2 x 5 1/2". Enclosed On-Off switch shuts off automatically after cutting through workpiece. Precision work-holding vise is 4" wide with 6" opening, and swivels 45 to 90°. Single gear reduction drive assembly is completely sealed. Positive mechanical pressure relief on reverse blade stroke provides maximum blade life. Uses standard 12 x 1 x .050" thick (14 tooth) hacksaw blade. Cast iron construction. Prefired for easy motor hook up. Shipped with blade, steel belt, motor pulley, pulley guard and 3-cond. cord. Dayton brand. Shpg. wt. 95 lbs.

GENERAL SPECIFICATIONS

Sawing Capacity	5 1/2" OD Tubing, 3 1/2" Rds., 5 1/2 x 5 1/2" Rectangles
Blade Size	12L x 1H x .050" Thick
Blade Speeds	64 and 90 Strokes/Minute
Drive	Single Gear Reduction, 3/4" Face
Vise	4" Wide, 6" Opening
Control	Automatic Stop Toggle
Dimensions (Without Stand)	12W x 18H x 40"L

HACKSAW LESS MOTOR AND STAND

No. 22784. Retail \$350.00. Each.....\$299.07

HACKSAW WITH MOTOR, LESS STAND

No. 22784 power hacksaw with 1/3 HP, 1725 RPM, 115/230V, 60 Hz Dayton capacitor-start motor. Motor packed separately. Wt. 114 lbs.
No. 7Z438. Retail \$410.00. Each.....\$342.33

FLOOR STAND FOR NO. 22784 HACKSAW

Predrilled, steel floor stand complete with screws—ready to mount. 16 W x 20 H x 30" L. Shipped unassembled. Shpg. wt. 14 lbs.
No. 22134. Retail \$34.95. Each.....\$21.05



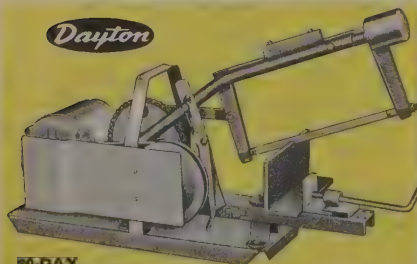
EXTRA METAL-CUTTING SAW BLADES

Tough high speed blades with roller teeth for cutting ferrous and non-ferrous metals, hard plastics and other tough materials. Size: .050" thick x 12" long x 1" wide. Fit Dayton hacksaw above, plus other makes using same size blade. Dayton brand.

Teeth per in.	Thick.	Stock No.	Retail	Each	Shpg. Wt.
10	.050"	6X145	\$2.55	\$2.17	3 oz.
14	.050"	6X146	2.55	2.17	6 oz.

3 x 3" CAPACITY WORKSHOP HACKSAW

Cuts up to 3" OD Pipe. Shuts Off Automatically when Workpiece is Cut



**70-DAY
LIMITED WARRANTY**
See full Warranty Policy In Index

\$79.57 Saws everything up to and including 3" steel pipe. Uses standard 10" hacksaw blade. Chain drive provides positive sawing action. Makes uniform, straight cuts—unattended. Shuts off automatically when piece is cut. Ball bearing and oilless sleeve bearings throughout. Requires 1/4 HP, 1725 RPM motor. Operates at approximately 120 cutting strokes a minute. Quick release slide action vise adjustable from 0 to 3 1/2". Dimensions: 11 1/2" W x 24" L x 12 1/2" H. Dayton brand. Shpg. wt. 24 lbs.

10" HACKSAW LESS MOTOR AND DRIVE

No. 1Z725. Retail \$119.95. Each.....\$79.57

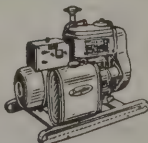
10" HACKSAW WITH MOTOR AND DRIVE

No. 1Z725 hacksaw with proper drive and 1/4 HP, 1725 RPM, 115V, 60 Hz split phase motor. Shpg. wt. 31 lbs.

No. 7Z050. Retail \$149.95. Each.....\$105.51

1000 to 30,000 WATT PORTABLE & STATIONARY POWER PLANTS STOCKED

Grainger's has large stocks of high performance, portable alternator and generator power plants with 1000 to 7000 watts, 115 & 230V AC output for emergency and stand-by service. Stationary-type generators with 5000 to 30,000 watts output are



also stocked. Units start automatically when public power fails, shut off when normal power resumes. The Dayton line is quality-built and available with a variety of features. Large stocks maintained. See Index under Power Plants.

Dayton



**No. 2Z649
FLOOR
STAND,
\$33.51**

10" CUT-OFF SAW

Cuts Rounds to 2 1/2" Dia., Rectangles to 2 1/2 x 4"

Ruggedly built unit has cast iron base and body with sealed, permanently lubricated ball bearings. Cast aluminum pulley and drive belt (included) are protected by a steel cover. Heavy duty 2 HP rated toggle switch. Single speed 4600 RPM arbor, 1 3/8" in dia. and necked to 5/8" dia. to accept standard abrasive wheel. Arbor collar and wheel guard with exhaust port are designed to meet OSHA requirements. Vise size 2 x 5", adjustable 0 to 45° for miter cuts. Overall length with motor 35"; overall height without optional stand 23" (with stand 51"). Supplied with work stop and general purpose 10" dia. reinforced abrasive wheel. Rewired; instructions for connecting to power supply included. Dayton brand. Shpg. wt. 88 lbs.

CUT-OFF SAW LESS MOTOR AND STAND

No. 2Z644. Retail \$259.95. Each.....**\$227.99**

CUT-OFF SAW WITH MOTOR, LESS STAND

No. 2Z644 cut-off saw with 2 HP, 115/208-230V, 60 Hz, TEFC capacitor motor. Motor packed separately. Shpg. wt. 130 lbs.

No. 7Z424. Retail \$390.00. Each.....**\$330.12**

METAL CUT-OFF WHEELS FOR 2Z644 SAW

Blade Dia.	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
8"	5X906	\$4.73	\$4.02	\$3.54	8 oz.
10"	5X907	8.50	7.22	6.37	11 oz.

STEEL FLOOR STAND FOR SAW ABOVE

Sturdy, all-steel stand fits Dayton cut-off saw and other similar makes. Overall height 28". Dayton brand. Shpg. wt. 25 lbs.

No. 2Z649. Stand. Retail \$39.95. Each.....**\$33.51**

Rockwell 15" FLOOR MODEL DRILL PRESS

1/2 HP, 115V, 60 Hz Motor Delivers a Full 7/10 HP to the Work. Four Speeds—680, 1250, 2400 and 4600 RPM

Four speed selections give this drill press versatility for handling many different kinds of work. Powered by a 1/2 HP, 115V, 60 Hz motor that delivers a full 7/10 HP to the spindle and work. Pivot-type motor mounting plate permits quick belt tension release, fast speed change. Lifetime lubricated ball bearings. Table has side ledges and slots for easy clamping of work. Full belt guard for operator safety. Floating spindle drive gives efficient torque transmission without belt pull. Adjustable, locking depth stop. Up-front On-Off switch. Supplied complete with motor, spindle, motor pulleys, V-belt and chuck key. UL listed. Rockwell brand (15-069). Shpg. wt. 158 lbs.

No. 3Z500. Retail \$319.99. Each.....**\$299.09**



\$299.09

**Complete
With Motor**

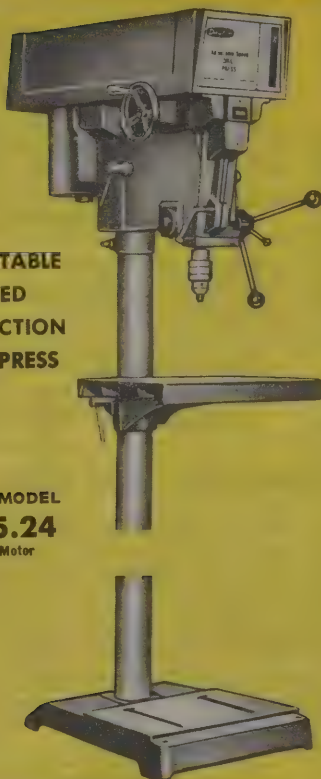
GENERAL SPECIFICATIONS

Base Size	8 1/2 x 12"
Work Table Size	10 x 10 1/4"
Depth of Throat	7 1/2"
Chuck to Base	47 1/4" Maximum
Chuck to Table	42 5/8" Maximum
Spindle Travel	4 7/8"
Spindle Diameter	2 3/4"
Number of Speeds	680 RPM, 1250 RPM, 2400 RPM, 4600 RPM
Column Diameter	2 3/4"
Bearings	Lifetime Lubricated Ball Bearing Spindle
Drilling Capacity	1/2" in Cast Iron 3/8" in Steel
Overall Dimensions	Width 15 1/4" Front to Rear 22 7/8" Height 68 3/4"

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

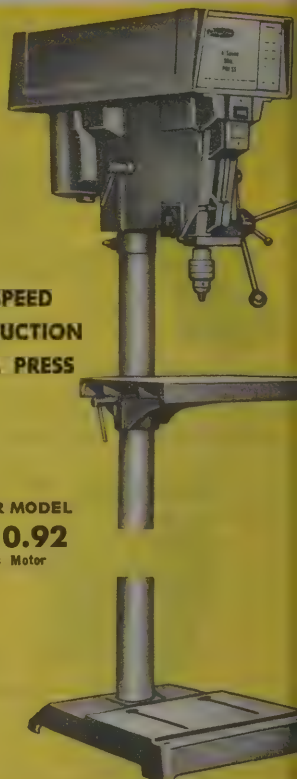
Information on most major items in Grainger's Product Book is available for the asking. Let our sales or counter people know what you need,

or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.



**ADJUSTABLE
SPEED
PRODUCTION
DRILL PRESS**

FLOOR MODEL
\$505.24
Less Motor



**6-SPEED
PRODUCTION
DRILL PRESS**

FLOOR MODEL
\$410.92
Less Motor

GENERAL SPECIFICATIONS

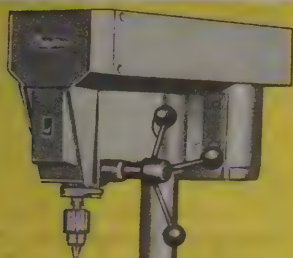
Description	Adj.-Speed Production	6-Speed Production	5-Speed Commercial
Capacity, Cast Iron	3/8"	3/8"	1/2"
Capacity, Steel	1/2"	1/2"	3/8"
Drills to Center	15"	15"	15"
Quill Diameter	2 1/8"	2 1/8"	1 7/8"
Spindle Travel	6"	6"	5"
Spindle Speed	400 to 5000	375, 625, 1125, 1950, 3450, 5000	500, 925, 1750, 3250, 5500
Column Diameter	3"	3"	2 3/4"
Table	11 1/4"x11 1/4"	11 1/4"x11 1/4"	10x11"
Base Working Area, Floor	10 1/4"x15"	10 1/4"x15"	10x15"
Base Working Area, Bench	9x10"	9x10"	9x10"
Spindle to Table, Floor	41"	41"	41"
Spindle to Table, Bench	12 1/4"	12 1/4"	12 1/4"
Spindle to Base, Floor	47 1/2"	47 1/2"	47 1/2"
Spindle to Base, Bench	18"	18"	18"
Height, Overall, Floor	67 1/2"	67 1/2"	67 1/2"
Height, Overall, Bench	38 1/2"	38 1/2"	38 1/2"

No. 4X663, Spray Mist Cooler. Delivers air and water or other coolant mixture to speed work, extend tool life. (See listing on nearby page for full details.) Retail \$42.00. Each.....**\$29.46**

**PRODUCTION DRILL PRESSES
FEATURE**

- **Large 3" Column and 2 1/8" Quill.** assure more accurate drilling. Deep quill support in head stock plus massive head area, permit full 6" spindle stroke with minimum deflection.
- **Locking Depth Stop Scale.** Positive easily adjusted stop assures accurate repeatability. One piece pinion mates with rack quill to provide smooth down feed, no back lash. Aluminum scale.
- **Positive Transmission of Power.** Flexible pulley broad V-belt delivers maximum torque with minimal slippage. Limited belt tension to provide longer bearing life.

DRILL PRESSES

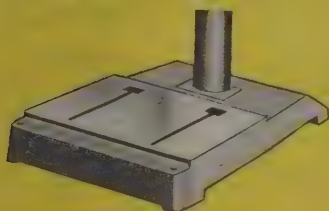


5-SPEED COMMERCIAL DRILL PRESS

FLOOR MODEL

\$257.22

Less Motor



ADJUSTABLE-SPEED DRILL

Adjustable-speed Production drill press provides more efficient, nonslip, positive transmission of power at any speed selected. Self-aligning design keeps pulley diameter and power constant under load.

ADJ.-SPEED PRODUCTION

Dial Speeds from 400 to 5000 RPM While Machine is Running. All Ball Bearing Spindle, 6" Stroke

These production-rated presses are ideal for drilling work that requires frequent speed changes. Adjustable speed mechanism permits instant speed changes while machine is running: Simply turn speed pilot wheel to obtain full power at speeds from 400 to 5000 RPM. Pre-set speed stays constant under most load conditions. One-piece, precision-machined steel spindle is supported in a 2 1/4" malleable iron quill by 4 lifetime heavy duty bearings. Oversize locking depth stop and precision-graduated depth scale insures single or repetitive drilling accuracy. Precision No. 33 taper chuck, 0 to 1 1/2" capacity. Convenient On-Off push-button safety switch. Precision ground, cast iron slotted worktable tilts up to 45°. Heavy cast iron base and 3-spoke feed wheel. Rewired for easy hook up to No. 5K694 3/4 HP capacitor-start motor, included in "7Z" combinations below.

6-SPEED PRODUCTION

All Ball Bearing Spindle with 6" Stroke

Designed and built for continuous production work, tool and maintenance shop fabricating. Adjustable in-line motor mount keeps belt at proper tension through all 6 speeds—transmits full torque for drilling hard steels fast and efficiently. Large drill press head provides extra-deep support for 2 1/4" diameter malleable iron quill. Stress hardened one-piece spindle is supported by 4 permanently lubricated, heavy duty bearings. Oversize depth stop with precision depth scale for single or repetitive drilling accuracy. Cast iron, precision ground, slotted worktable tilts 45° in either direction. Ground steel 3" diameter column. Precision No. 33 taper chuck, 0 to 1 1/2" capacity. Up-front push-button On-Off safety switch. 3-spoke feed wheel. Rewired harness for easy motor hook up. Use No. 5K455 Dayton 1/2 HP, 1725 RPM, capacitor-start motor for regular service; No. 5K694 3/4 HP, 1725 RPM, capacitor-start motor for production use. Motor included in "7Z" combinations below.

5-SPEED COMMERCIAL

All Ball Bearing Spindle with 5" Stroke

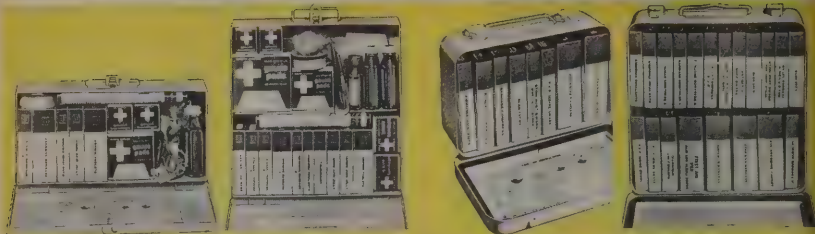
Five speed selections enable these presses to handle light and medium duty drilling in metal-working and woodworking shops, maintenance depts., etc. Large head casting is precision-bored, supports a full 1 7/8" dia. quill. Unique two-way belt tensioner permits instant tension release for fast speed changes without tools. Commercial 1 1/16" dia. chuck, 1/16 to 1/2" capacity. Slotted worktable is precision ground. Heavy cast iron painted base. Ground steel 2 3/4" diameter column. Equipped with up-front On-Off safety switch, 1/2" keyed chuck and rewired harness for quick motor hook up. Recommended 1725 RPM motor; No. 5K597 1/2 HP. Dayton split-phase for regular service; No. 5K694 3/4 HP, capacitor-start for heavy duty work. Motor included in "7Z" combinations below.

Drill Press	Model	PRICE LESS MOTOR**				PRICE WITH MOTOR				
		Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Motor HP*	Retail	Each	Shpg. Wt.
5-Speed Commercial	Bench	32565	\$319.00	\$247.43	117	72523	1/2	\$360.00	\$288.23	141
	Bench	—	—	—	—	72524	3/4	380.00	321.08	147
	Floor	32566	339.00	257.22	146	72525	1/2	380.00	298.02	170
	Floor	—	—	—	—	72526	3/4	400.00	330.87	175
6-Speed Production	Bench	32567	490.00	399.15	170	72527	1/2	530.00	454.15	196
	Bench	—	—	—	—	72528	3/4	550.00	477.11	199
	Floor	32568	520.00	410.92	210	72529	1/2	560.00	465.92	246
	Floor	—	—	—	—	72530	3/4	580.00	488.88	248
Adj.-Speed Production	Bench	32569	540.00	490.35	185	72531	3/4	605.00	568.31	214
	Floor	32570	555.00	505.24	245	72532	3/4	620.00	583.20	274

1725 RPM motor. (**) Use NEMA 56 Frame motor only.

SEE WARRANTY INFORMATION ON PAGE 684

WELSHGARD FIRST-AID CABINETS



INDUSTRIAL KITS

For In-Plant Requirements

No. 5X624
For 25 People Max.

\$17.20
Lots 6

No. 5X625
For up to 50 People

\$28.55
Lots 6

CONTRACTOR KITS

Meet OSHA Requirements For Outdoor Use

No. 5X806
For 10 Man Crew Max.

\$15.93
Lots 6

No. 5X807
For up to 24 Man Crew

\$32.38
Lots 6

INDUSTRIAL KITS—For indoor use at plants, garages, offices, etc. White metal cabinet mounts to wall by means of key hole slots, also has carrying handle. No. 5X624 contains common first-aid treatments for up to 25 people; No. 5X625 has supplies for up to 50 people.

CONTRACTOR KITS—Meet OSHA requirements for outdoor use by contractors. White steel cabinet has rubber gasket and pulldown latches to make it water and dust proof. Each box contains individual packages so unused treatments won't become contaminated.

Type	For No. People	No. Individual Treatments	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
Industrial	Up to 25	134	740	5X624	\$28.60	\$19.85	\$17.20	3
Industrial	Up to 50	217	741	5X625	\$3.25	32.94	28.55	5
Contractor	Up to 10	78	710C	5X806	24.70	18.38	15.93	2
Contractor	Up to 24	159	724C	5X807	48.20	37.37	32.38	5 1/2

CONTENTS OF FIRST-AID CABINETS LISTED ABOVE

REPLACEMENT ITEMS WITH PRICES GIVEN (Only)—Available individually from Chicago Customer Service Dept. Order from nearest Grainger address for fastest shipping service

No.	Pcs.	Per Pkg.		Description	No.	Pcs.	Per Pkg.		Description
Pkgs.	Pkg.	Each			Pkgs.	Pkg.	Each		
No. 5X624—INDUS. KIT (Up to 25 People)					No. 5X625—INDUS. KIT (Up to 50 People)				
1	10	\$1.04		Ammonia Inhalants (600)	1	10	\$1.04		Ammonia Inhalant (600)
1	40	.96		Adhesive Bandages, 1 x 3 3/8" (603TX)	1	40	.96		Adhesive Bandages, 1 x 3 3/8" (603TX)
2	6	.96		Adhesive Bandages, 2 1/4 x 3 1/2" (608)	2	6	.96		Adhesive Bandages, 2 1/4 x 3 1/2" (608)
1	2	1.26		Burn Creme, 15gm. (670W)	1	1	.84		4" Bandage Compress (624T)
1	50	1.08		Aspirin Tablets, 5gr. (654)	1	100	1.08		Aspirin Tablet, 5gr. (654X)
1	2	—		First Aid Ointment (671)	2	2	1.26		Burn Creme, 15gr. (670W)
1	1	.56		Forceps, 3 1/4" (784)	1	1	1.04		Tourniquet (781)
1	1	.56		Scissors, 4" blunt (785)	1	2	—		First Aid Ointment (671)
2	1	.44		Bandage, 1" x 10 yds. (811)	1	1	.56		Forceps, 3 1/4" (784)
1	10	1.10		Telfa Pads, 2 x 3" (817T)	1	1	.56		Scissors, 4" Blunt (785)
1	1	.56		Sterile Eye Wash, 1 oz. Bottle (831)	2	1	.44		Bandage, 1" x 10 yds. (811)
1	1	—		PVP Iodine, 1 oz. Bottle (820P)	2	1	.66		Bandage, 2" x 10 yds. (812)
1	1	.28		First Aid Instruction Manual (823)	3	10	1.42		Telfa Pads, 2 x 3" (817T)
1	1	.56		Adhesive Tape, 1/2" x 5 yds. (842)	1	1	.82		Aromatic Spirits of Ammonia, 2 oz. Bottle (818)
1	—	—		Metal Kit with Carrying Handle	1	1	.56		Sterile Eye Wash, 1 oz. Bottle (831)
No. 5X807—CONTR. KIT (24 Man Crew)					1	1	—		PVP Iodine, 1 oz. Bottle (820P)
2	10	\$1.04		Ammonia Inhalant (600)	1	6	.22		Drinking Cups (821)
2	4	1.32		Bandage Compress, 2" (622T)*	1	1	.28		First Aid Instruction Manual (823)
1	1	.84		Bandage Compress, 4" (624T)*	1	1	.56		Adhesive Tape, 1/2" x 5 yds. (842)
1	1	.80		Gauze Bandage, 4" x 6 yds. (635)	1	1	—		Metal Kit with Carrying Handle
1	1	.86		Triangular Bandage, 40" (636)	No. 5X806—CONTR. KIT (10 Man Crew)				
1	4	.40		Gauze Compress, 3 x 3" (637)	1	10	\$1.04		Ammonia Inhalant (600)
1	1	.94		Gauze Compress, 24 x 72" (640)	1	4	1.32		Bandage Compress, 2" (622T)*
2	2	—		Welsh Burn Creme (670W)	1	1	.84		Bandage Compress, 4" (624T)*
1	10	1.12		Stingrest Swabs (711)	1	2	—		Welsh Burn Creme (670W)
2	10	1.12		PVP Iodine Swabs (749)	1	10	1.12		Stingrest Swabs (711)
1	1 ea.	1.68		Tourniquet & Forceps (780)	1	10	1.12		PVP Iodine Swabs (749)
1	1	1.60		Acid Alkali, Burn Wash (682)	1	40	—		Adhesive Bandage, 1 x 3" (606TX)*
2	40	—		Adhesive Bandage, 1 x 3" (606TX)*	1	1	1.48		Eye Wash, 1/2 oz. (669X)†
1	6	—		Adhesive Bandage, 2 x 4 1/2" (608)*	1	—	—		Metal Kit, Water & Dust Proof
1	1	1.48		Eye Wash, 1/2 oz. (669X)†					
1	—	—		Metal Kit, Water & Dust Proof					

(*) With non-adherent pad.

(†) Two pads and two strips included.

WELSHGARD EYE & FACE PROTECTION

PROTECTIVE SPECTACLES

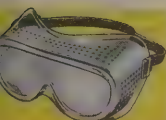


Clear or Green Lens

67c Lightweight, shatterproof, molded plastic. For home workshop use, plant visitors protection, etc. Fits over eye glasses. Shpg. wt. 2 oz.

Type	Mfrs. Model	Stock No.	Retail	Each	Lots 12
Clear	1112	5X605	\$1.22	\$0.79	\$0.68
Green	1114	5X794	1.22	.77	.67

SOFT FRAME GOGGLE



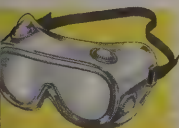
\$1.52

Lots 12

Soft, ventilated, clear plastic frame provides maximum eye protection with comfort, wide vision. Fits over prescription glasses, protects eyes from molten metal, sparks, chips, etc. Optically correct, distortion-free clear lens. Welshgard brand (1010). Shpg. wt. 6 oz.

No. 4X251. Retail \$2.57. Each \$1.75; lots 12, \$1.52

CHEMICAL SPLASH GOGGLE



\$1.85

Lots 12

Protects eyes against harmful chemical splash and fine dust. Has indirect stack-trap ventilation at top and sides of clear plastic frame. Distortion-free clear lens. Adjustable elastic headband. Welshgard brand (1012). Wt. 5 oz.

No. 5X795. Retail \$2.91. Each \$2.13; lots 12, \$1.85

REPLACEMENT LENS FOR NOS. 4X251 & 5X795. High impact clear plastic lens. Shpg. wt. 1 oz.

No. 6X273. For Welshgard goggles Nos. 1010 and 1012 shown above. Welshgard brand (1010-1). Retail \$1.23. Each 79c; lots 12.....68c

No. 5X796. For discontinued Welshgard goggles Nos. 1070CC and 1072CC. Welshgard brand (70-1). Retail \$1.23. Each 79c; lots 12.....68c

CHIPPERS GOGGLES



\$2.98

Lots 12

Has well ventilated, four-molded cups for close, comfortable fit. Adjustable headband, with 50mm diameter clear lenses. Welshgard brand (5001). Wt. 5 oz.

No. 4X633. Retail \$4.92. Each \$3.44; lots 12, \$2.98

CLEAR 50mm REPLACEMENT LENS. Hardened lens for No. 4X633 and other 50mm goggles. Welshgard brand (A50MM). Wt. 3 oz.

No. 5X611. Retail \$2.01. Each \$1.56; lots 12, \$1.35

ADJ. TEMPLE SAFETY SPECS



Without Side Shields

\$4.18

Clear, Lots 6

NEW

Attractive black frame with universal bridge and 5½ to 6½" adjustable temple. Hardened safety lens give maximum protection, meet government specs. Available with or without plastic side or cup shields in clear lens or shaded green for added protection in flash areas.

Type	Stock* No.	Retail	Each	Lots 6	Shpg. Wt.
------	------------	--------	------	--------	-----------

WITH PLASTIC SIDE SHIELDS

Clear	5X606	\$7.05	\$5.31	\$4.60	3 oz.
Green	5X607	7.94	5.98	5.18	3 oz.

WITHOUT PLASTIC SIDE SHIELDS

Clear	5X797	\$6.49	\$4.83	\$4.18	2 oz.
Green	5X798	7.30	5.21	4.52	2 oz.

WITH PERFORATED CUP

Clear	6X575	\$7.27	\$5.30	\$4.60	3 oz.
Green	6X576	7.94	5.98	5.18	3 oz.

(*) Manufacturer's models 2258BK8GB, 2258BK8V-20B, 2248BKGB, 2248BKV20B, 2849BKCGGB and 2849BK54208B respectively.

6 x 12" FACESHIELD



\$4.12

Lots 6

Clear plastic visor, .040 T x 6 D x 12" W, is mounted on hinged brow guard. Pin-lock headgear adjusts at top and sides, has soft foam sweatband. Welshgard brand (6346). 1 lb.

No. 2X438. Retail \$7.27. Each \$4.75; lots 6.....\$4.12

FLAT-FOLD FACESHIELD



\$3.35

Lots 12

Lightweight faceshield stores flat, assembles in seconds for full face and neck protection. Clear .040 T x 8 D x 12" W visor fits into groove on spark-guard, forms a curvature that protects forehead. Fully adjustable polyethylene headgear. Welshgard brand (6648). Wt. 7 oz.

No. 5X799. Retail \$5.71. Each \$3.87; lots 12, \$3.35

CLEAR PLASTIC REPLACEMENT VISORS

Faceshield replacement visors for Nos. 2X438 and 5X799 listed above. 6 or 8" deep x 12" wide x .040" thick. Shpg. wt. 3 oz.

T	D	W	Mfrs. Model	Stock No.	Retail	Each	Lots 6
.040"	6"	12"	6846	5X608	\$2.69	\$1.56	\$1.35
.040"	8"	12"	6848	5X609	2.69	1.75	1.52

WELSHGARD EYE-FACE-RESPIRATORY PROTECTION

CUP WELDERS GOGGLES



\$3.51 Made of thermal plastic with hardened lenses.
Lots 6

Adjustable bridge. Meets ANSI spec. Z87.1 Welshgard brand (5002-FH5). 2 oz.

No. 6X577. Retail \$5.71. Each \$4.05; lots 6, \$3.51

SOFT WELDERS GOGGLE

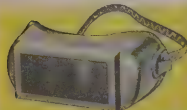


\$4.07 Lots 12

Fits over eye glasses. Soft vinyl, 1-pc. frame with indirect ventilation. Front lens holder. 2x4 1/4" (No. 5 shade) hardened filter lens meets USASA. Z87

spec. Welshgard brand (5070H5). Shpg. wt. 5 oz.
No. 4X870. Retail \$7.27. Each \$4.69; lots 12, \$4.07

RIGID WELDERS GOGGLE



\$3.17 Lots 6

Low cost, cushioned rigid frame goggle with heat treated 2 x 4 1/4" filter plate (No. 5 shade). Welshgard brand (5074H5). 8 oz.

No. 5X800. Retail \$5.37. Each \$3.65; lots 6, \$3.17

2 x 4 1/4" REPLACEMENT LENS, NO. 5 SHADE
For 4X870, 5X800. Welshgard brand (MH5). 3 oz.
No. 5X613. Retail \$1.12. Each 79c; lots 12, 68c

2 x 4 1/4" CLEAR COVER PLATE
For 4X870, 5X800. Welshgard brand (NNN). 2 oz.
No. 5X614. Retail \$0.34. Each 29c; lots 12, 25c

ARC WELDING HELMET



\$8.58 Lots 6

Strong fiberglass helmet resists heat and weld spatter. Lens holder molded into shell prevents light leaks. Has sweatband and pin-stop for helmet angle. Large headgear knob for easy adjustment, even with gloves on. Fed. Spec. lens, No. 10 shade. Welshgard brand (8200-M10). Wt. 1 lb.

No. 4X635. Retail \$15.10. Each \$9.90; lots 6, \$8.58

2 x 4 1/4" REPLACEMENT LENS, NO. 10 SHADE
For No. 4X635. Welshgard brand (M10). Wt. 3 oz.
No. 5X612. Retail \$0.78. Each 65c; lots 12, 57c

2 x 4 1/4" CLEAR COVER PLATE
For No. 4X635. Welshgard brand (NNN). Wt. 2 oz.
No. 5X614. Retail \$0.34. Each 29c; lots 12, 25c

LIFT FRONT ATTACHMENT



\$2.35 Converts above helmet, and other one-pc. molded, fixed-front types to a lift front. Fits over lens holder, locks with 2 hinged clips. Welshgard brand (8260-3). Wt. 5 oz.

No. 5X610. Retail \$3.92. Each \$2.71; lots 6, \$2.35

DUST RESPIRATOR



\$1.35 Safeguards wearer from dust, mist and non-toxic paint spray. Soft, pliable, non-allergenic facepiece with reverse headband. Washable polymer filter. Welshgard brand (7200). Wt. 3 oz.

No. 5X615. Retail \$2.57. Each \$1.56; lots 12, \$1.35

REPLACEMENT FILTERS, PKG. OF 5
Five polymer filters for 5X615 (above). Wt. 1 oz.
No. 5X616. Retail \$2.35. Each \$1.08; lots 12, 93c

B/M DUST RESPIRATOR



Bureau of Mines approved Schedule 21B. For protection against dusts, chromic acid mists, etc. Replaceable filter. Welshgard brand (7100). 5 oz.
No. 5X801. Retail \$11.12. Each \$6.94; lots 6, \$6.00

REPLACEMENT FILTERS, PKG. OF 5
Five static-wool filters for 5X801. Wt. 1 oz.
No. 5X802. Retail \$1.97. Each \$1.10; lots 6, 93c

PAINT RESPIRATOR



\$10.03 Protects against paint and lacquer mists, organic vapors, etc. Under-chin strap headband. Lasting organic dust cartridges with laminated prefilter held over cover. Top protection with easy breathing. NIOSH approved. Welshgard brand (7531). 8 oz.

No. 6X274. Retail \$18.44. Ea. \$11.58; lots 12, \$10.03

REPLACEMENT CARTRIDGES FOR NO. 6X274
Pkg. of 6. Welshgard brand (7500-1). Wt. 1 lb.
No. 6X275. Ret. \$15.33. Each \$9.63; lots 12, \$8.50

REPLACEMENT PREFILTERS FOR NO. 6X274
Pkg. of 10. Welshgard brand (7500-10). Wt. 2 oz.
No. 6X276. Ret. \$4.92. Each \$3.10; lots 10, \$2.40

DUAL FILTER RESPIRATOR



\$10.03 Has NIOSH approval T 23C-74. Provides protection against pesticide harmful dust and spray. Has dual, long-life cartridges, plus all of the outstanding features of dual filter paint respirator above. Comfortable all vinyl, non-allergenic face-piece. Welshgard brand (7549). Shpg. wt. 1 lb.

No. 5X619. Retail \$18.44. Ea. \$11.58; lots 12, \$10.03

REPLACEMENT CARTRIDGES & FILTERS
Pkg. of 4 cartridges and 8 pre-filters for No. 5X619 respirator. Shpg. wt. 1 lb.
No. 5X620. Retail \$13.65. Each \$8.69; lots 6, \$7.00

WELSHGARD RESPIRATORY-HEAD-EAR PROTECTION

FULL FACE RESPIRATOR



\$60.93

Lots 6

A full facepiece, cartridge-type respirator for protection against organic vapors, acid gases, dusts and mists. Provides eye protection as well as respiratory protection in exposures not immediately harmful to human life. Welshgard brand (7613). Wt. 2¾ lbs.

No. 5X803. Ret. \$84.40. Each \$70.31; lots 6, \$60.93

REPLACEMENT CARTRIDGES, PKG. OF 6

Filter cartridges for No. 5X803. Shpg. wt. 1 lb.
No. 5X804. Retail \$15.33. Each \$9.67; lots 6, \$8.38

WHITE BUMP CAP



\$2.48

Lots 6

Protects against scalp lacerations, bruises, minor concussions. (Not a safety hat.) Molded plastic with foam-backed sweatband and 6½-7¾" headgear. Welshgard brand (4335). Wt. 1½ lbs.

No. 5X621. Retail \$4.36. Each \$2.87; lots 6, \$2.48

BROW BANDS



\$6.15

Box of 25,
6 Box Lots

Made of gauze-reinforced cellulose sponge, washable, lightweight and non-toxic. Absorbs perspiration, keeps glasses from fogging. Sold only in boxes of 25 bands. Welshgard brand (8010). Wt. 8 oz.

No. 5X805. Retail \$8.55. Each \$7.10; lots 6, \$6.15

SAFETY HARD HATS



\$3.13 Lots 6

Either Color

Meet or exceed Fed. specs for impact and penetration, plus dielectric requirements of EEL specs. Made of high density polyethylene. Rain

trough design. High edge strength for extra protection from head-on and side impact. Size 6½-8. Adjustable headgear. Sweatband. 1¾ lbs.

Color	Mfrs. Model	Stk. No.	Retail	Each	Lots 6
Yellow	4365Y	4X637	\$5.04	\$3.62	\$3.13
White	4365W	5X808	5.04	3.62	3.13

WINTER LINER. Full style. For hard hats and bump cap. Welshgard brand (4250-3). Wt. 3 oz. No. 5X910. Retail \$3.36. Each \$2.62; lots 6, \$2.27

ELASTIC CHIN STRAP. Pkg. 12 straps & hooks for hard hats. Welshgard brand (4200-6). 1 lb. No. 5X911. Ret. \$20.60. Each \$12.73; lots 4, \$11.03

HEARING PROTECTORS



Standard



Deluxe

No. 5X622

\$6.72

Lots 6

Standard model gives protection in moderate noise areas up to 110 dba; deluxe model in high noise areas exceeding 110 dba. (Protection is generally required when 90 dba is exceeded.)

Type	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
Standard	4520	5X822	\$10.74	\$7.75	\$6.72	1¾
Deluxe	4530	5X823	11.86	8.19	7.10	1¾

WELSHGARD EQUIPMENT MEETS

American National Standards Institute tests below constitute the source of standards

OR EXCEEDS THESE SAFETY SPECS

for personal protective equipment required by the Occupational Safety & Health Act (OSHA).

Grainger Stock No.	Applicable ANSI Specification
5X438	Z87.1-1968, Section 5.2
5X251	Z87.1-1968, Sect. 6.1.3, Model 1
5X633	Z87.1-1968, Sect. 6.1.1, T. I, Model 1
5X635	Z87.1-1968, Section 5.1
5X637	Z89.1-1969, Type 2, Class A & B
5X870	Z87.1-1968, Sect. 6.1.3, Model 3
5X605	No Specification at Present
5X606	Z87.1-1968, Sect. 6.1.2, T. II, Style A
5X607	Z87.1-1968, Sect. 6.1.2, T. II, Style A
5X608	Z87.1-1968, Section 5.2
5X609	Z87.1-1968, Section 5.2
5X610	Z87.1-1968, Section 5.1.4.4.1
5X611	Z87.1-1968, Section 6.3
5X612	Z87.1-1968, Section 6.3
5X613	Z87.1-1968, Section 6.3
5X614	No Specification at Present
5X615	No Specification at Present
5X616	No Specification at Present
5X619	TC-23C-75, NIOSH Approved
5X620	Z88.2-1969, NIOSH Approved
5X621	No Specification at Present
5X622	No Specification at Present
5X623	No Specification at Present

Grainger Stock No.	Applicable ANSI Specification
5X624	For In-Plant Requirements.
5X625	No ANSI Spec. at Present
5X794	No Specification at Present
5X795	Z87.1-1968, Sect. 6.1.3, Model 2
5X797	Z87.1-1968, Sect. 6.1.2, T. II, Sty. A
5X798	Z87.1-1968, Sect. 6.1.2, T. II, Sty. A
5X799	Z87.1-1968, Section 5.2
5X800	Z87.1-1968, Sect. 6.1.3, Model 3
5X801	Z88.2-1969, Bureau of Mines 21B14
5X802	Z88.2-1969, Bureau of Mines 21B14
5X803	No Specification at Present
5X804	No Specification at Present
5X805	No Specification at Present
5X806	Meets OSHA Requirements For
5X807	Outdoor Use. No ANSI Spec.
5X808	Z89.1-1969, Type 2, Class A & B
6X273	Z87.1-1968, Section 6.1.3
6X274	TC-23C-75, NIOSH Approved
6X275	No Specification at Present
6X276	No Specification at Present
6X575	Z87.1-1968, Sect. 6.1.2, T. II, Sty. A & B
6X576	Z87.1-1968, Sect. 6.1.2, T. II, Sty. A & B
6X577	Z87.1-1968, Section 6

NON-TOXIC, DRY CHEMICAL FIRE EXTINGUISHERS

PEM ALL

A:B:C RATED FIRE EXTINGUISHERS

For All Types of Fires—Wood, Fabric, Rubbish, Grease, Flammable Liquid (Gasoline, Oil) & Electrical



No. 2W086
1A 10 B:C—5 Lbs.



No. 2W087
2A 10 B:C—5½ Lbs.



No. 2W088
4A 60B:C—10 Lbs.

\$17.13 Lots 4 **\$19.92** Lots 4 **\$28.22** Lots 4

Compact, refillable extinguishers with top quality construction features, including:

- Lightweight, refillable steel cylinders
- Non-corrosive parts inside and out; durable brass valve is standard
- Waterproof, easy-to-read pressure gauge
- Positive, squeeze-grip operation
- Heavy duty mounting bracket

All units are charged with a specially formulated siliconized dry chemical, rate A:B:C by Underwriter's Laboratories for fighting wood, paper and fabric fires—plus grease, flammable liquid (gasoline, oil) and electrical equipment fires (motors, appliances, switches, etc.). All models not only exceed Dept. of Transportation safety requirements, all are U.S. Coast Guard approved. Durable red enamel finish. Pem-A brand.

UL LISTED. U.S. COAST GUARD AND DEPT. OF TRANSPORTATION (DOT) APPROVED

Ratings: The higher the rating, the higher the capacity for fighting Class A:B:C fires

Rating	Size of Charge	Pressure Indicator	Dimensions (Ht. x Dia.)	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shp. Wt.
1A 10B:C	5 lbs.	Gauge	16 x 4"	PA50ABC	2W086	\$32.00	\$18.68	\$17.13	10
2A 10B:C	5½	Gauge	20 x 4	PA57ABC	2W087	37.65	21.73	19.92	11
4A 60B:C	10	Gauge	17 x 6	PA100ABC	2W088	56.75	28.78	28.22	20

PEM ALL

B:C RATED FIRE EXTINGUISHERS

For Grease, Flammable Liquid & Electrical Fires. UL Listed U. S. Coast Guard Approved Refillable Steel Cylinder



No. 4X616
5 B:C—2¾ Lbs.



No. 2W089
10 B:C—2½ Lbs.



No. 4X617
10 B:C—5 Lbs.



No. 4X685
30 B:C—10 Lbs.

\$8.86 Lots 6 **\$11.44** Lots 6 **\$15.01** Lots 4 **\$28.26** Lots 4

All of the fine construction features built into the extinguishers above, are also found in these units. B:C rated by Underwriter's Laboratories for extinguishing grease, flammable liquid (gasoline, oil) and electrical equipment fires. Not for use on ordinary combustible materials such as wood, paper or fabric—see A:B rated extinguishers above. Charged with siliconized dry chemical. All models exceed DOT safety requirements, are U.S. Coast Guard approved. Red finish. Pem-All brand.

UL LISTED. U.S. COAST GUARD AND DEPT. OF TRANSPORTATION (DOT) APPROVED

Ratings: The higher the rating, the higher the capacity for fighting Class B:C fires

Rating	Size of Charge	Pressure Indicator	Dimensions (Ht. x Dia.)	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Lots 6	Shp. Wt.
5 B:C	2¾ lbs.	Gauge	14½ x 3"	PA27	4X616	\$17.40	\$10.13	—	\$8.86	5
10 B:C	2½	Gauge	16 x 3	PK250	2W089	20.80	12.52	—	11.44	5
10 B:C	5	Gauge	16 x 4	PA50	4X617	28.65	16.89	\$15.01	—	9
30 B:C	10	Gauge	18½ x 6	PA100	4X685	56.75	28.63	28.26	—	20

RECHARGE KITS FOR NOS. 4X616 & 4X617

Consist of powder, CO₂ cylinder and adapter, plus replacement O ring seal. Complete with instructions.

For Ext. No.	Stock No.	Retail	Each	Lots 3	Shp. Wt.
4X616	4X666	\$10.50	\$5.83	\$5.41	
4X617	4X667	12.95	7.97	7.39	

FIRE EXTINGUISHER DEFINITIONS—SEE PAGE 252 FOR DETAILS

for RESIDENTIAL, COMMERCIAL, INDUSTRIAL USE

RED CAP A:B:C RATED FIRE EXTINGUISHERS

For All Types of Fires—Wood, Fabric, Rubbish, Grease, Flammable Liquid (Gasoline, Oil) & Electrical



No. 2W206
1A 5B:C—2½ Lbs.



No. 2W207
2A 10B:C—5 Lbs.



No. 2W208†
4A 60B:C—10 Lbs.

No. 2W206
1A 5B:C—2½ Lbs.

\$8.21

Lots 6

Compact, refillable fire extinguishers charged with ammonium phosphate dry chemical rated A:B:C by Underwriter's Laboratories for fighting wood, paper and fabric fires—plus grease, flammable liquid (gasoline, oil) and electrical equipment fires (motors, appliances, etc.). Lightweight aluminum cylinder, except No. 2W207 is steel. Non-clogging DuPont valve on No. 2W206; others have aluminum head. Durable non-corrosive parts inside and out. Waterproof, easy-to-read pressure gauge for visual check of pressure conditions. Positive, squeeze grip operation; simple to refill. Heavy duty wall mounting bracket. All models are U.S. Coast Guard approved (except No. 2W208), all meet Department of Transportation requirements. Durable red enamel finish. Red Cap brand.

UL LISTED, U.S. COAST GUARD† AND DEPT. OF TRANSPORTATION (DOT) APPROVED

Ratings: The higher the rating, the higher the capacity for fighting Class A:B:C fires

Rating	Size of Charge	Pressure Indicator	Dimensions (Ht. x Dia.)	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Lots 6	Shpg. Wt.
1A 5B:C	2½ lbs.	Gauge	15½ x 3"	1A5	2W206	\$19.05	\$9.58	—	\$8.21	4
2A 10B:C	5	Gauge	14½ x 4¼	2A10SA	2W207	34.25	15.98	\$14.84	—	8½
4A 60B:C	10	Gauge	22 x 5	4A60	2W208†	50.68	23.75	22.06	—	15

† Model 2W208 NOT U.S. Coast Guard Approved.

RED CAP B:C RATED FIRE EXTINGUISHERS



— NON-REFILLABLE —

No. 5X660*
3 B:C—1 Lb.

No. 5X661
5 B:C—2 Lbs.

— REFILLABLE —

No. 5X662
5 B:C—2 Lbs.

No. 2W091
10 B:C—2½ Lbs.

No. 5X663
10 B:C—5 Lbs.

For Grease, Flammable Liquid & Electrical Fires. UL Listed

No. 5X660
2 B:C—1 Lb.

\$3.27

Lots 6

Dry chemical extinguishers, B:C rated by Underwriter's Lab for putting out flammable liquid, electrical and grease fires. No. 2W091 is charged with 2½ lbs. of soda-bicarbonate for a high B:C rating with minimum charge. Light weight aluminum cylinder (except 5X663 is steel) and non-clogging DuPont Delrin valve. Non-refillable models feature pressure pin indicator—refillable types have pressure gauge. Meet DOT requirements. U.S. Coast Guard approved (except No. 5X660). Red enamel finish. With mounting bracket. Red Cap brand.

UL LISTED, U.S. COAST GUARD* AND DEPT. OF TRANSPORTATION (DOT) APPROVED

Rating: The higher the rating, the higher the capacity for fighting Class B:C fires

Rating	Refillable	Size of Charge	Pressure Indicator	Dimensions (Ht. x Dia.)	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Lots 6	Shpg. Wt.
2 B:C	No	1 lb.	Pin	9½ x 3"	100D	5X660*	\$ 7.67	\$ 4.39	—	\$3.27	2
5 B:C	No	2	Pin	12½ x 3	210D	5X661	10.97	5.93	—	4.74	3
5 B:C	Yes	2	Gauge	13 x 3½	210R	5X662	14.37	7.11	—	5.95	3
0 B:C	Yes	2½	Gauge	14¼ x 3	250R	2W091	16.75	8.48	—	7.27	4
0 B:C	Yes	5	Gauge	13¼ x 4¼	410R	5X663	23.28	11.82	\$10.91	—	7

† Model 5X660 NOT U.S. Coast Guard Approved (USCG requires minimum charge of 2 lbs.).

RECHARGE KITS FOR NOS. 5X662 & 5X663
Consist of powder, CO₂ cylinder, new valve at and complete instructions.

For Ext.	Stock No.	Retail	Each	Lots 4	Lots 6	Shpg. Wt.
5X662	5X664	\$3.70	\$2.75	—	\$2.06	2½
5X663	5X665	5.20	4.77	\$3.33	—	5

SEE WARRANTY INFORMATION ON PAGE 684

ION CHAMBER SMOKE and FIRE DETECTORS



Dayton

\$20.64

No. 2E396

- 120V, 60 Hz, and Battery Operated Models
- Sense Minute Particles of Combustion, Even Before Smoke Begins to Appear
- Dual Ionization Chamber Compensates for Temperature, Humidity and Air Pressure Changes
- Complies with All Fire Safety Codes under UL Standard No. 217
- Loud Horn-Type Alarm—85dB at 10 Feet for Maximum Audibility

Dayton single-station fire and smoke detectors can sense fire in its earliest (incipient) stage for maximum user protection. Units feature dependable, dual ionization chamber design and horn type alarm that registers 85dB 10 feet from detector. Sensitivity is pre-set; no adjustment required. Convenient push-to-test button on exterior of unit. Can be mounted on wall or ceiling. Both units meet all fire safety codes under UL Standard No. 217, in addition to ICBO and BOCA approval agencies. White plastic case, 6½" dia. x 1¼" D.

120V, 60 Hz Model: Meets HUD, FHA and VA standards. Connects to any 120V, 60 Hz power source which cannot be turned off by a switch. Red indicator light glows continuously to assure

user that power is applied to unit. Uses only 1½ watts. Mounts on standard electrical junction boxes.

Battery Operated Model: No electrical connection required. Install anywhere in minutes. Uses long service life battery (supplied) which will last for at least 1 year and is available locally for replacement. Voltage regulator compensates for declining battery power. Also has beeper type signal which sounds for up to one month when battery replacement is required.

Power	Stock No.	Retail	Each	Shpg. Wt.
120VAC	2E396	\$29.88	\$20.64	1
Battery	2E395	39.88	27.92	1½

HONEYWELL TC49 FIRE and SMOKE DETECTOR

Dual Ionization Chamber Type. Easy Installation on Wall or Ceiling

Can Sense Incipient Fire—Before It Reaches The More Hazardous Stages. Loud Alarm

\$24.66

No. 2E409



ONLY 6¼" DIAMETER

For conventional and mobile single family homes, apartments, townhouses. Can detect minute particles of combustion at the earliest (incipient) stages of fire thus warning building occupants before smoke, flame and heat create serious hazards. Utilizes dual ionization chamber detection principle which compensates for temperature, pressure and humidity changes resulting in high sensitivity and minimum false alarms. Interconnection feature allows one detector to simultaneously trigger alarm horns of up to three detectors. Meets all current fire safety codes including FHA & VA. Loud alarm horn; 85 dB at 10 ft. Solid state circuitry with operation indicator lamp. Removing cover disables alarm. Can be tested with match or cigarette. Adjustable sensitivity. Easy installation; universal mounting plate fits all standard electrical boxes or use optional No. 6X438 line cord accessory. Mount on wall or ceiling. Satin white plastic case, 6¼" dia. x 2¼" D. +40°F to +150°F ambient operating temperature range. For 120V, 60 Hz. UL listed. Shpg. wt. 2½ lbs.

No. 2E409. Smoke Detector. Retail \$39.95. Each.....**\$24.66**

FIRE EXTINGUISHER DEFINITIONS

Size of charge—Weight of fire-fighting dry chemical.

Rating—A measurement of fire extinguisher's effectiveness on different classes of fires. The larger the rating number, the more capacity for extinguishing the class of fire indicated.

Class (or type of fires)—Class A: Fires in ordinary combustible materials such as wood, cloth, paper and rubber. Class B: Fire in flammable liquids such as gasoline, oil, paint and grease. Class C: Fires which involve energized electrical equipment.

Light hazard—Where combustible or flammable liquids present are such that small size fires may be expected—offices, school rooms, churches, assembly halls, etc.

Ordinary hazard—Where combustible or flammable liquids of moderate size may be expected—mercantile storage, display, auto showrooms,

parking garages, light manufacturing, warehouses (not classified below), school shops, etc.

Extra hazard—Combustibles or flammable liquids present where fires of severe magnitude may be expected—woodworking, auto repair, aircraft servicing, warehouses with high pile (14 ft. or higher) combustibles and processes such as flammable liquid handling, painting, etc.

The table below serves as a general guide only in selecting a fire extinguisher for the area to be protected. Check local fire department code for detailed information.

Type of Hazard	Max. Travel to Ext.	Min. Ext. Rating For Area	Type of Hazard	Max. Travel to Ext.	Min. Ext. Rating For Area
Light	75 ft.	1A	Light	50 ft.	5 B:C
Ordinary	75	2A	Ordinary	50	10 B:C
Extra	75	3A	Extra	25	20 B:C

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP

Best BRAND WORK GLOVES for EVERY JOB NEED

One Size Fits All Hands. Coated Styles are Sanitized to Retard Odor from Perspiration



SKINFLINT—Vinyl treated cotton fabric resists stains and moisture, outwears canvas and leather gloves three to one. Exceptionally lightweight and flexible with $2\frac{1}{2}$ " knitted wrist cuff. Washable. Gray. Best brand (2-B61). Wt. 2 oz.

No. 5X901. Retail \$1.74. Pair \$1.22; lots 3.....\$1.08

KNITTY GRITTY—Wrinkled natural latex coating over palm protects against cuts and lacerations, provides a no-slip grip. Has $2\frac{1}{2}$ " canvas wrist cuff, napped lining and elastic band. Washable and washable. Yellow. Best brand (2-NFW). Wt. 8 oz.

No. 2W071. Retail \$3.10. Pair \$2.17; lots 3.....\$1.92

NEOPRENE COATED (Knit Wrist)—Smooth neoprene coating over cotton is waterproof—provides excellent wear and chemical resistance. Napped lining; partially coated wrist cuff. Black. Best brand (2-5122). Wt. 7 oz.

No. 2W068. Retail \$2.56. Pair \$1.79; lots 3.....\$1.59

NEOPRENE COATED (Gauntlet)—Like above with wrinkled neoprene palm, $4\frac{1}{2}$ " smooth neoprene cuff. Black. Best brand (2-6780R). 10 oz.

No. 2W070. Retail \$4.03. Pair \$2.82; lots 3.....\$2.50

PVC COATED—For handling chemicals and abrasives. PVC coating resists hundreds of corrosive chemicals. Soft napped lining. Curved fingers for better grip. Cotton knit wrist cuff is partially coated for extra protection. Orange. Best brand (2-703). Wt. 7 oz.

No. 2W069. Retail \$2.15. Pair \$1.51; lots 3.....\$1.33

VINYL UTILITY—Vinyl coated over full length to resist moisture. Wrinkled palm for no-slip grip. Napped lining, elastic band. Tu-tone gray. Best brand (2-860). Wt. 5 oz.

No. 5X902. Retail \$2.51. Pair \$1.76; lots 3.....\$1.56

LEATHER (Knit Wrist)—General-purpose work gloves with selected shoulder split leather on palm side, heavy cotton fabric on other side. Stretchable $2\frac{1}{2}$ " knitted cuff. Napped lining on palm side. Gray. Best brand (2050K). Wt. 8 oz.

No. 5X903. Retail \$3.46. Pair \$2.42; lots 3.....\$2.15

LEATHER (Gauntlet)—Like above but with leather knuckle strap, elastic band and $2\frac{1}{2}$ " safety cuff. Gray leather, plus striped cotton fabric. Best brand (2-43SE). Wt. 9 oz.

No. 5X904. Retail \$5.31. Pair \$3.72; lots 3.....\$3.29

DEM-KOTE SPRAY ENAMELS for SAFETY CODING

Meet OSHA Standards for Safety Color Coding, ANSI Specification Z53.1, 1971

High quality acrylic spray enamels—fast drying, outstanding color durability, resistant to marking, even and full coverage, etc. Limited warranty—if not satisfied with first can, return for credit. See Limited Warranty Policy in Index. Packaged 6 cans of one color per carton. Shpg. wt. per carton approximately 6 $\frac{1}{2}$ lbs.

Colors listed in table meet standards of the American National Standards Institute (ANSI) for marking physical hazards noted below:

BRIGHT RED, No. 2W097. For identifying fire protection equipment and apparatus. Also for danger signs, flammable liquid containers and emergency stop switches on machinery.

GLOSS PURPLE, No. 2W098. For radiation hazards—for example, X-ray equipment and radioactive materials. Also used in combination with yellow for markers such as tags signs, etc.

LIGHT GREEN, No. 2W099. For designating safety equipment such as first-aid kits, gas masks, stretcher containers, etc.

GLOSS ORANGE, No. 2W100. For marking dangerous parts of machinery or energized equipment. Examples: safety starter buttons, exposed parts of pulleys, gears, etc.

BRIGHT YELLOW, No. 2W152. For designating caution. Construction equipment such as bulldozers; material handling equipment such as fork lifts; exposed edges of platforms, pits, etc.; and fixtures (pipes, conveyors, etc.) which extend into normal operating areas should be painted bright yellow.

GLOSS BLACK & WHITE Nos. 2X711, 2X712. Used individually or as a combination for traffic areas, including areas around emergency equipment that must remain clear. Also used for housekeeping purposes (refuse cans for example).

Spray Enamels Listed Below Contain No Fluorocarbons

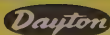
Color Description	Stock No.	Retail	Each	Lots 6, One Color
Bright Red	2W097	\$2.49	\$1.47	\$1.22
Gloss Purple	2W098	2.49	1.47	1.22
Light Green	2W099	2.49	1.47	1.22
Gloss Orange	2W100	2.49	1.47	1.22
Bright Yellow	2W152	2.49	1.47	1.22
Gloss Black	2X711	2.49	1.47	1.22
Gloss White	2X712	2.49	1.47	1.22



\$1.22
Lots 6,
One Color

Limited Warranty
If not satisfied with first can, return for credit. See Limited Warranty Policy in Index

SEE WARRANTY INFORMATION ON PAGE 684

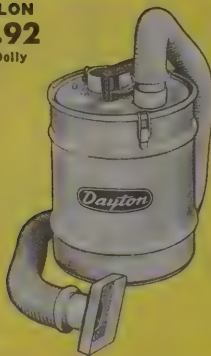


VACUUMS FOR HOME & WORKSHOP

For Dry Pickup. 5 and 10 Gallon. UL Listed

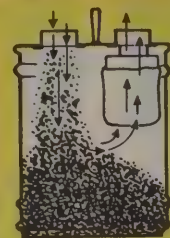
5 GALLON
\$29.92

Less Dolly



10 GALLON
\$39.52

Less Dolly



HOW VACS WORK

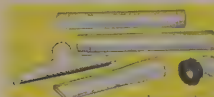
Heavy debris and chips fall to bottom of drum without impeding air flow. Fine dust is kept from exhausting by the filter over motor unit. Result: Increased vacuum efficiency.

Large 2½" diameter intake hose for easy removal of bulky debris in shop, basement and garage working areas. Picks up sawdust, shavings, paint chips, grit, dust and fillings around power tools, furnaces, etc. Powerful single-stage, flow-thru, 5.2 amp, 115V, 50/60 Hz intermittent duty motor delivers 50" static vacuum pressure and 104 CFM at 2½" tank orifice. Motor is equipped with permanently lubricated ball

and sleeve bearings, 8 ft. 3-cond. cord set and On-Off switch. Large chips and debris collect at bottom of metal drum, while disposable filter traps fine dust in drum. Snap-on lid allows quick easy emptying of tank. Tank adapts to 1½" 11½" hose and accessories. Supplied with 2½" dia. x 6 ft. wire-reinforced hose and 6" rectangular nozzle. See listing below for optional dolly UL listed. Dayton brand.

Tank Gal.	Dia.	Diameter Height	Stock No.	Retail	Each	Shpg. Wt.
5	12"	14"	2Z205	\$39.99	\$29.92	13
10	14¾"	17½"	2Z563	49.99	39.52	19

2½" DRY VAC PICKUP KIT



Accessory kit for Dayton dry vacuums includes two 45" extension tubes, 10" long crevice tool, round dusting brush and 14" floor nozzle

with brush. Shpg. wt. 3 lbs. Dayton brand.

No. 2Z975. 2½" Dry Vac Pickup Kit. Retail \$10.99. Each \$8.51

1¼" WET/DRY PICKUP KIT



For use with Dayton wet and dry vac Kit includes pair of 20" plastic extension tubes, 9" crevice tool, round dusting brush, 10" master

nozzle, rug shoe and squeegee shoe. Shpg. w 3½ lbs. Dayton brand.

No. 2Z976. 1¼" Wet/Dry Vac Pickup Kit. Retail \$14.99. Each \$10.99

DOLLY FOR 5-12 GAL. VACS

No. 2Z979

\$5.19

5 Gal. Dolly



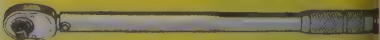
NEW

Sturdy, white plastic dolly has four 2" black plastic swivel casters for smooth, easy maneuverability. Vacuum fits snugly into dolly. Provides ample support to prevent vacuum tipping, even when full of liquid. Accommodates 5, 8, 10, 12 gallon vacuums. Dayton brand.

Capacity Vac. Gal.	Stock No.	Retail	Each	Shpg. Wt.
5	2Z979	\$6.99	\$5.19	3
8, 10, 12	2Z980	7.19	5.60	3½

TORQUE WRENCH

Micro-Adjusting. Ratcheting, Reversible Head ½" Sq. Drive. 10 to 150 Ft.-Lbs. Torque Range



\$67.50 Fast, accurate and easy to use. No projecting dials, scales or pointers to get in the way. Simple set desired torque on the micrometer-type vernier scale, set lock to hold exact torque setting. Apply wrench to work and pull up to the required torque. Torque mechanism signals when torque setting is reached. Release handle pressure and wrench resets automatically to the same torque setting. All-steel construction with enclosed working parts. Torque selector graduated in 1 ft.-lbs. Knurled handle. Overall length 18¾". Proto brand (8016). Wt. 2½ lbs. No. 6X313. Retail \$75.00. Each \$67.



VACUUMS FOR HOME & WORKSHOP

For Wet & Dry Pickup. 5 to 12 Gallon. UL Listed



5 GALLON
\$43.60
No. 2Z972



8 GALLON
\$48.44
No. 2Z982



12 GALLON
\$59.97
No. 2Z983

nomical, efficient units for vacuuming up dirt, dust and grime as well as wet pickup in rug shampooing, floor scrubbing or water in a flooded basement. Molded, rustproof, breakable head assembly. Snap-on lid for easy emptying. Single-stage, by-pass, 5.5 amp, 50 Hz intermittent duty motor delivers 50" vacuum pressure and 90 CFM at 2½" tank diameter. Motor is equipped with ball and sleeve

bearings and 8 ft. 3-cond. cord set. Comes with 1¼" x 6 ft. flexible hose, 6" utility nozzle and squeegee insert. Steel tank has side hose inlet for suction and top outlet for blowing applications. Industrial, rust preventive, gray baked-on enamel finish. Adapts to use 1½" and 2½" hose and accessories. See listing on opposite page for information on optional dolly. UL listed. Dayton brand.

Tank Gal.	Dimensions	Stock No.	Retail	Each	Shpg. Wt.
	Dia. Height				
5	13½" 23½"	2Z972	\$59.99	\$43.60	17
8	14½" 19½"	2Z982	79.95	48.44	22
12	14½" 25½"	2Z983	89.75	59.97	23

DAYTON ACCESSORIES FOR HOME/WORKSHOP VACS

Accessories are primarily for home use. Smaller circumference provides concentrated suction for better liquid pickups. The

wider 2½" accessories are ideal for picking up chips and other heavy debris. These accessories fit Dayton and most other vacuum brands.

Description	Stock No.	Retail	Each	Shpg. Wt.
1 ¼" TOOLS FOR WET AND DRY PICKUP				
6 Ft. Wire-Reinforced Hose with 2½" Coupler	2Z290	\$6.19	\$4.88	1
20" Extension Tubes	2Z291	4.50	3.62	8 oz.
5" General Purpose/Upholstery Nozzle	2Z438	1.79	1.33	1 oz.
9" Crevice Tool	2Z439	.99	.75	2 oz.
Round Dusting Brush	2Z442	1.49	1.11	2 oz.
10" Shag Rug Nozzle	5X881	8.50	4.10*	11 oz.
10" Master Nozzle	6X463	3.49	2.57	6 oz.
10" Brush Shoe for Dry Pickup	6X464	2.99	2.20	6 oz.
10" Squeegee Nozzle for Wet Pickup	6X465	2.99	2.20	6 oz.

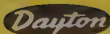
2 ½" ACCESSORIES FOR DRY PICKUP

6 Ft. Wire-Reinforced Hose with Tank Coupler	2Z212	7.59	6.02	1½
45" Extension Handle	2Z280	4.49	3.53	1¼
Elbow Joint to Connect Hoses to Tools	2Z288	1.99	1.53	3 oz.
Utility Floor & Bench Nozzle	2Z281	1.99	1.51	8 oz.
Round Utility Nozzle	2Z284	1.19	.93	8 oz.
10" Crevice Tool	2Z287	2.19	1.71	8 oz.
Round Dusting Brush	2Z289	3.29	2.62	8 oz.
14" Floor Nozzle with Brush	6X466	4.99	3.51	8 oz.

While Stocks Last.

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

SEE WARRANTY INFORMATION ON PAGE 684



WET & DRY PICKUP INDUSTRIAL VACUUMS

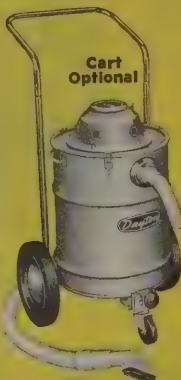
10 GALLON
\$129.92
No. 22973



See Cart
Description
Below



10 GALLON
\$80.37
No. 22564 **B**



20 GALLON
\$77.69
No. 32571

C



Powerful two-stage and single-stage motors provide heavy duty suction for long, dependable service in industrial wet and dry pickup applications. All units come furnished with 7' x 1½" plastic ribbed flexible hose, dust bag, 6" utility nozzle and squeegee insert, instructions and parts list. All vacuums use 1¼, 1½ and 2½" hose and accessories. Side hose inlet. UL listed. Dayton brand.

motor delivers 80" static vacuum pressure and 90 CFM at 2½" tank orifice.

B 10 & 20 Gallon Steel Vacs. Steel tank has rust resistant, baked epoxy lining. Noryl® plastic head assembly. Two-stage, by-pass, 6.0 amp, 115V, 50/60 Hz intermittent duty motor delivers 80" static vacuum pressure and 90 CFM at 2½" tank orifice.

C 20 Gallon Steel Vacuum. Dayton's least expensive industrial vacuum. Steel tank has industrial gray enamel finish. Ball and sleeve bearing, 50/60 Hz intermittent duty single-stage by-pass, 5.5 amp motor delivers 50" static pressure and 90 CFM at 2½" tank orifice.

A 10 & 20 Gallon Stainless Steel Vacs. Tanks are all stainless steel with head assembly of Noryl® plastic for use in rugged applications and in corrosive environments. Two-stage, by-pass, 6.0 amp, 115V, 50/60 Hz intermittent duty

Tank Gal.	Dimensions Dia.	Height	Stock No.	Retail	Each	Shpg. Wt.
WET & DRY STAINLESS STEEL VACS						
10	14½"	21¼"	22973	\$210.00	\$129.92	24
20	16½"	29"	32580	290.00	179.94	33
WET & DRY STEEL VACS						
10	14½"	21¼"	22564	110.00	80.37	24
20	16½"	29"	32283	130.00	100.18	29
20*	16½"	29"	32571	110.00	77.69	35

(*) Single-stage motor. All others two-stage.

CART FOR INDUSTRIAL VACUUMS

For above 10 and 20 gallon industrial vacuums. 10 x 1.75" ball bearing rear wheels and 3" swivel casters mounted on steel dolly with offset rectangular handle. Dayton brand.

Vac. Gal.	Stock No.	Retail	Each	Shpg. Wt.
10	22613	\$39.99	\$29.08	17
20	22642	44.99	30.83	18

8 PC. 1½" WET/DRY VACUUM KIT

NEW



dia. brush. Shpg. wt. 8½ lbs.

No. 22977. Dayton Plastic Wet/Dry Vac Kit. Retail \$35.00. Each \$24.62

Has 4 ft. two-piece chrome plated wand; 14" master nozzle w/brush, rug & squeegee shoe; 9" crevice tool; 3½"

9 PC. 1½" WET/DRY VACUUM KIT



Chrome-Plate Metal Tools

Has 4 ft. two-piece metal wand; 14" master nozzle w/brush, rug & squeegee shoe; 7" floor

nozzle; 15" crevice tool; rd. brush. Wt. 10 lbs. No. 22978. Dayton Chrome Wet/Dry Vac Kit. Retail \$65.00. Each \$49.99



HEAVY DUTY INDUSTRIAL VACUUMS

No. 2Z974

\$254.08



- No. 2Z974, 2½ HP stainless steel vacuum provides corrosive liquid pickup and dry vacuum simultaneously

No. 3Z579

\$54.92



- No. 3Z579, 28 gallon dry vacuum converts to blower for cleaning motors and hard to reach areas



10 GAL. STAINLESS STEEL WET/DRY VAC

Long lasting, heavy duty vacuum designed to simultaneously pickup liquids and dry waste. Large capacity, for use in factories, machine shops, stores or wherever corrosive pickup is a problem. Features stainless steel drum and flexible filtration system. Two-stage, 10.5 amp, 115V HP by-pass motor develops suction of 110" per lift and 110 CFM.

2Z974 vacuum is furnished with 10 gallon stainless steel tank, 7 ft. x 1½" flexible hose, 6" nozzle and squeegee insert, side hose and 18 ft. 3-cond. cord set. Heavy duty cart. 2Z613, listed on opposite page, is available easy portability. Tank adapts to use with 1½" or 2½" hose and accessories. UL listed. Dayton and. Shpg. wt. 45 lbs.

2Z974. Dayton 2½ HP Stainless Steel Vacuum. Retail \$325.00. Each \$254.08

28 GAL. INDUSTRIAL DRY PICKUP VAC

Heavy duty cleaning of wood shavings and rust chips that would clog other vacs. Unit also converts into blower for cleaning motors, machinery and hard to reach places. Two-stage, flow-thru, 1.7 peak HP, 6.5 amp, 115V, 50/60 Hz intermittent duty motor develops 80" static vacuum pressure and 98 CFM at 2½" tank orifice.

Motor is equipped with permanently lubricated ball and sleeve bearings, 8 ft. 3-cond. cord set. On-Off switch. Large chips and debris collect at bottom of 28 gallon fibre drum without clogging, while replaceable filter bag traps fine dust. Tank adapts to 1½" or 1½" hose. Furnished with 6' x 2½" wire-reinforced hose, 6" utility nozzle and casters for easy portability. UL listed. Dayton brand. Shpg. wt. 24 lbs.

No. 3Z579. Dayton 28 Gal. Dry Pickup Vacuum. Retail \$89.95. Each \$54.92

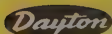


ACCESSORIES FOR INDUSTRIAL VACUUMS

Description	Stock No.	Retail	Each	Shpg. Wt.
1½" ACCESSORIES				
6' Wire-Reinforced Hose with 2½" Coupler	5X882	\$12.99	\$8.18	1
10' Wire-Reinforced Hose for No. 2Z988 Wall Vac	6X077	24.99	16.81	5
Master Head for Accessory Shoes	5X868	12.49	8.23	1
Floor Shoe for Dry Floor Cleaning	5X869	6.29	4.82	9 oz.
Rug Shoe for Rug Cleaning	5X870	5.39	4.12	2½
Squeegee for Water Pickup	5X871	5.39	4.15	2½
Pair of 20" Extension Wands	5X872	14.99	10.64	3
Service Tool	5X873	2.59	2.06	6 oz.
Master Head for Accessory Shoes	5X874	3.49	2.75	4 oz.
Squeegee Shoe for Water Pickup	5X875	2.49	1.91	1 oz.
Brush Shoe for Dry Floor Pickup	5X876	2.49	1.91	1 oz.
Round Dusting Brush	5X877	5.29	4.11	4 oz.
CASTERS, FILTERS, ADAPTERS FOR VACUUMS				
1 Paper Filter Bags for Dry Drum Vacs	2Z211	.99	.75	1 oz.
1 Paper Filter Bags for No. 2Z437 Vac	6X451	3.49	2.80	3 oz.
1 Filter Bag for Dry Vacuums	5X878	1.79	1.31	1 oz.
1 Sleeve for Wet/Dry Vacuums	5X879	2.19	1.73	1 oz.
1 to 1½" Tank Adapter for 1½" Hose	2Z446	1.69	1.25	2 oz.
1 to 1½" Hose Adapter for 1½" Tools	2Z283	1.69	1.29	1 oz.
1 Flanged Ferrule for attaching Vac to Power Tools	2Z282	1.59	1.22	8 oz.

Central Air Conditioning Systems & Accessories Stocked for Immediate Shipment

SEE WARRANTY INFORMATION ON PAGE 684



SPECIAL PURPOSE VACUUMS FOR DRY PICKUP

2½ GALLON HANG-UP VACUUM / BLOWER

Convenient, powerful 2½ gallon vacuum for picking up wood chips, sawdust, ashes, metal shavings and other dry materials. Used in factories, service stations and machine shops, as well as in home utility rooms, workshops and garages. Attaching hose to outlet converts unit into blower for cleaning motors, machinery and hard to reach places. Two-stage, flow-thru, 6.5 amp, 115V, 50/60 Hz motor develops 86" static vacuum pressure and 98 CFM at 2½" tank orifice. Motor is equipped with permanently lubricated ball and sleeve bearing and On-Off switch. Hung on wall, it will reach up to 18 ft. in any direction using 1½" dia. x 18 ft. flexible wire-reinforced hose and 6" master nozzle supplied with unit. Can also be attached to saws, sanders and other equipment to reduce hazards of debris accumulation. Unit lifts out of wall bracket for use at other locations. Seamless steel tank 8½" dia. x 24" high. Uses all 1¼, 1½ and 2½" accessories. UL listed. Dayton brand. Shpg. wt. 15 lbs.



\$64.70

With Hose & Master Nozzle

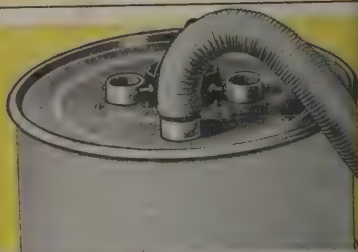


No. 2Z988. Dayton 2½ Gal. Hang-Up Vac/Blower. Retail \$129.95. Each\$64.70

TWIN-MOTOR VAC HEAD

Industrial vac head mounts on 55 gal. drum for removing heavy accumulations of metal chips, shavings or other debris. Has twin two-stage, flow-thru 6.5 amp, intermittent duty, 50/60 Hz, 115V motors which develop 86" static vacuum pressure and 150 CFM when operated together. Intake connection adapts to 1¼, 1½ and 2½" hose sizes. Vacuum head comes equipped with 2½" dia. x 6" L wire-reinforced hose, 6" rectangular nozzle and 6 ft. 3-cond. cord set. UL listed. Dayton brand. Wt. 26 lbs.

\$86.93



No. 3Z107. Dayton Twin-Motor Vac Head. Retail \$150.00. Each\$86.93

PORTABLE HAND & BENCH VAC

A lightweight—only 6 lbs.—vac with plenty of pick-up power. Permanently lubricated, single-stage, flow-thru 5.2 amp, 115V, 50/60 Hz, intermittent duty motor develops 52" static vacuum pressure and 104 CFM at 2½" tank orifice. Strong Noryl® housing, 18 ft. 3-cond. cord set. Can be reversed and used as blower. Includes shoulder strap, 6" rectangular nozzle with brush, 2½" x 20" extension tube and 2½" x 3 ft. wire reinforced hose. Uses replacement filter bags 6X451. UL listed. Dayton brand. 12 lbs.

No. 2Z437. Retail \$54.99. Each\$40.77



\$40.77

ACCESSORY KIT FOR ABOVE VACUUM

Has two 20" extension tubes, 5" upholstery nozzle, 9½" crevice tool, 9" floor nozzle with brush, 2½" round dusting brush, 2½ to 1¼" adapter. 2 lbs.

No. 2Z440. Retail \$12.99. Each\$9.45



SHOP AND MATERIAL HANDLING EQUIPMENT STOCKED

This MotorBook includes a large and varied line of widely-used material handling and shop equipment, all available from your Grainger Sales Office/Warehouse at low cost. All equipment offered is designed to either help your people work more



efficiently or store material more systematically. The modern equipment available from Grainger pays for itself in use. See Index for products needed; chances are you'll find them and many more that can help make your operation more efficient.

Dayton



Shampoo Tank

3-Year Parts & Labor Limited Warranty (Machine Only)
See Limited Warranty Policy in Index

17" INDUSTRIAL FLOOR MACHINE

Scrubs and Polishes Wood, Tile, Concrete and Terrazzo Floors

Heavy duty unit for large floor areas in factories, offices, schools, hospitals, etc. Industrial-rated 1 HP, 115V, 60 Hz motor delivers 175 RPM to the brush. Helical gears drive brush smoothly and quietly. Does a quick, thorough job of scrubbing, polishing and waxing—also cleans rugs and carpets. Has safety switch, 4" non-marring casters, vinyl bumper. Nickel plated to resist corrosion. 50 ft. 3-cond. cord set, 17" Bassine scrubbing brush and 17" Union Fiber polishing brush for hard floors included. UL and CSA listed. Dayton brand. Shpg. wt. 100 lbs.

No. 3Z251. Floor Machine. Retail \$670.00. Each.....\$428.19

EXTRA 17" SOLID BLACK BASSINE BRUSHES FOR HARD FLOORS

No. 2Z345. Bassine scrub brush. Wt. 6 lbs. Retail \$35.00. Each.....\$26.38

No. 2Z344. Fiber polish brush. Wt. 6 lbs. Retail \$35.00. Each.....\$26.38

No. 2Z775, SHAMPOO TANK. 4 gallon molded plastic tank with fittings, hand control valve and feed tube. Use only with shower feed brush below. Dayton brand. Wt. 10 lbs. Retail \$129.95. Each.....\$95.80

No. 2Z776, SHOWER FEED SHAMPOO BRUSH. Use with above tank to produce deep cleaning foam shampoo. 17" brush has perforated wood head with nylon bristles. For hard floors and carpeting. Dayton brand. Shpg. wt. 8 lbs. Retail \$99.95. Each.....\$72.35



DEM-KOTE CARPET SHAMPOO

\$29.02

Lots 3
Dem-Kote shampoo is a foam cleaner that deep-cleans low and high pile rugs and carpets, restores colors to their original brightness. Won't wet backing or cause carpet shrinkage when properly used. Goes a long way—use six ounces of shampoo in one gallon of water. In 5 gal. plastic drum with pour spout. Dem-Kote brand. 42 lbs.

No. 2Z585. Retail \$39.95. Each \$31.43; lots 3, \$29.02



\$36.50

Lots 3

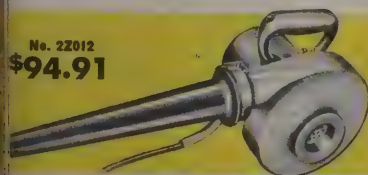
PORTABLE BLOWER-CLEANER

Delivers 13,000 Lineal Feet/Minute Velocity

Delivers a large volume of dry air for cleaning equipment, bins, etc. Powered by 6.3 amp, 115V, 50/60 Hz, single-speed, intermittent duty motor that develops 27,000 RPM. Capacity 90 CFM at 1 1/4" orifice. Has unbreakable housing, 18 ft. 3-cond. cord set, shoulder strap and nozzle, 8 H x 8 W x 20" L. UL listed. Dayton brand. Wt. 9 1/2 lbs.

No. 2Z528. Portable Blower-Cleaner. Retail \$49.99. Each \$39.31; lots 3.....\$36.50

1/2 & 1 HP BLOWER-SUCTION CLEANER



No. 2Z012

\$94.91

Unit produces a high volume of dry air for air-cleaning electric motors, machinery, etc.—and for drying varnish, paint and other finishes. With kit No. 2Z013, unit functions as a vacuum cleaner—attachments are used on air intake end of blower. Powered by 115V, AC/DC, pre-lubricated sealed ball bearing motor—single speed on Model 2Z012, two-speed on No. 2Z090. Equipped with 1 1/4" hard rubber blower nozzle and 20 ft. 3-cond. cord set. Blue finish. UL and CSA listed. Cadillac brand.

	HP	Amps	Capacity CFM	Velocity Lin. FPM	Dimensions H W L	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
eds	1/2	3	95	17,000	7 1/4" 7 3/4" 20 1/2"	F-10	2Z012	\$121.00	\$94.91	10
e w	3/4	6 1/2	150	21,500	9 3/4 9 1/4 21 1/2	HP-3	2Z090	177.50	140.54	18
gh	1	9	196	17,000						

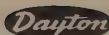


7-PC. KIT \$31.00

7-PC. ATTACHMENT KIT FOR ABOVE

For 2Z012 and 2Z090 blower-suction cleaners only. Kit includes: 1 1/4" dia. x 4 ft. hose with swivel—plus dust bag, furniture nozzle, crevice tool, fiber nipple, double-row brush and Sam Browne belt for carrying unit to work area. Cadillac brand (SA-82). Shpg. wt. 3 3/4 lbs.

No. 2Z013. Cadillac attachment kit. Retail \$41.00. Each.....\$31.00



PORTABLE STEAM CLEANER

A Simple, Trouble-Free Unit for Degreasing & Cleaning Engines, Equipment, Floors, Etc.
Creates Steam in Two Minutes. Blasts Off Stubborn Dirt & Grease Deposits in Seconds



90-DAY PARTS and
LABOR LIMITED WARRANTY
See Limited Warranty Policy in Index

\$526.11 Unique, exclusive siphon gun introduces cleaning compound to steam at nozzle—does not go thru pump or coils. Unit pumps cleaning solution or pure steam—125 GPH at 100 PSI. 20 ft. steam hose, 16 ft. suction hose. Multi-coil water wall boiler. Atomizing, ignition burner. Uses No. 2 fuel oil, diesel fuel or kerosene at the rate of 2 gallons per hour. 12 gallon fuel tank. Rotary-gear, bronze water pump powered by 1/3 HP, 115V, 60 Hz Dayton motor 10 x 2" tires. 30 W x 44 H x 24" D. Gray enamel finish. Dayton brand. Shpg. wt. 275 lbs.
No. 2Z003. Dayton Portable Steam Cleaner. Retail \$625.00. Each.....\$526.11

DEM-KOTE STEAM SOLVENT



\$23.03 For all makes of steam cleaners. Penetrating action removes soluble accumulations fast. Concentrated liquid—safe to skin, clothing and paint. Comes in 5 gallon plastic drum. Dem-Kote brand. Shpg. wt. 47 lbs.
No. 3Z004. Retail \$29.95. Each \$24.95; lots 3\$23.03

REPLACEMENT MOTORS for DAYTON, OTHER VACUUMS

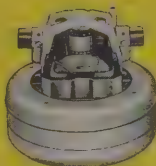
5.7" Diameter Blower Housings. Single & Two Stage Models. All Ball or Ball & Sleeve Bearings



A

\$12.28

No. 2M264
Lots 8



B

LAMB
BRAND



C

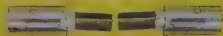


D

Designed for vacuum cleaners or pressure air power applications. Replace original equipment motors in Dayton dry and wet/dry vacs and many other brands. All are universal AC/DC series motors, 120V, 50/60 Hz, 40°C ambient, Class A insulation, continuous duty, open construction. Permanently lubricated ball and sleeve bearings, except No. 2M262 all-ball bearing. Mount in any position. Recognized by UL under Motor Component Recognition Program. For complete details on Lamb motors, see index under Motors, Special Types, Vacuum.

struction. Permanently lubricated ball and sleeve bearings, except No. 2M262 all-ball bearing. Mount in any position. Recognized by UL under Motor Component Recognition Program. For complete details on Lamb motors, see index under Motors, Special Types, Vacuum.

Fig.	CFM	Amps (% Orifice)	Stages	For Dayton Vac or Blower No.	Lamb Model	Stock No.	Retail	Each	Lots 8	Shpg Wt.
A	100	6.8	2, Flow-thru	— —	115750	2M262	\$29.46	\$19.30	\$17.36	5%
A	95	7.4	2, Flow-thru	2Z754, 2Z988, 3Z034, 3Z107, 3Z579	115737	2M263	26.95	17.65	15.88	5%
B	100	6.4	1, Flow-thru	2Z205, 2Z437, 2Z528, 2Z563	115717	2M264	20.85	13.66	12.28	4%
C	100	7.6	2, By-Pass	2Z564, 2Z612, 2Z973, 3Z283, 3Z415, 3Z580	115757	2M265	31.83	21.25	19.13	5
D	100	6.0	1, By-Pass	2Z640, 2Z641, 2Z972, 2Z982, 2Z983, 3Z571	115706	2M266	24.22	15.86	14.27	4%



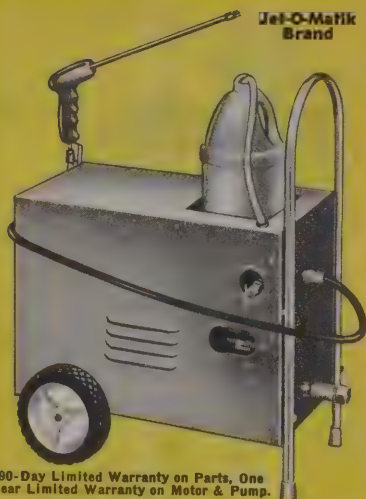
REPLACEMENT BRUSH MECHANISM, SET OF 2. Fits Nos. 2M263, 2M264, 2M265 and 2M266 vac motors above. Wt. 2 oz.
No. 1R236. Retail \$2.40. Per pair \$1.60; lots 8, pairs.....\$1

HIGH-PRESSURE SPRAYER-WASHER

1 HP Thermally Protected, 115V, AC Motor Delivers 3 GPM at 500 PSI. Completely Self-Contained

STANDARD FEATURES

- On-off switch, pressure and chemical metering controls are grouped for easy access
- Capacitor-start motor with thermal overload protection
- Positive displacement type piston pump
- Pressure gun plus long hose



\$360.27

Assembled,
Ready To Operate

Self-contained sprayer-washer moves easily on 7" diameter rubber tires. Assembled, ready to operate by attaching 3/4" garden hose connection to standard water tap (up to 140°F input temperature). High pressure hose and long-wand spray gun provide easy reach for removing dirt, mud, oil, etc. from vehicles, farm implements, construction equipment. Also ideally suited for spraying trees and shrubs, cleaning aluminum siding, etc. Unit has 1 HP manual thermal protected, 115V AC, capacitor-start motor; positive displacement piston pump; dial control for metering chemical injection; and quick-change pressure selector for washing and rinsing. Supplied with one gallon of detergent chemical, which is fed into system through 1/2" tube included with unit. Also comes with high impact, fan spray and general purpose nozzle, 1/2", 3-cond. cord set and chrome handle. Dimensions 24 L x 13 W x 28" H. Jet-O-Matik brand.

90-Day Limited Warranty on Parts, One Year Limited Warranty on Motor & Pump. See Limited Warranty Policy in Index

L. per minute	HP	Full-Load Amps	Volts 60 Hz.	Spray Gun Type	Hose Length	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
3	1	13.6	115/230*	On-Off	30 Ft.	606	3Z331	\$475.00	\$360.27	98

*Prewired 115V AC, 60 Hz.

HIGH PRESSURE HOT SPRAYER-WASHER

Oil Burner Heats Water up to 190°F. Delivers 120 GPH. Freight Prepaid. Jet-O-Matik brand



\$653.87

Freight Prepaid

Portable unit cleans dirt, sludge, grease, etc. with hot or cold water spray, plus cleaning solution if desired. Delivers 120 GPH at 500 PSI. Dial-temperature control adjusts from 110° to 190°F. in minutes. Has UL listed, 10,000 V, automatic ignition, kerosene or No. 1 oil burner with fuel filter.

Dial-meter chemical injection and adjustable temperature and pressure controls for complete balance of chemical, heat and pressure. Belt-driven positive displacement pump; 3/4 HP, capacitor-start, 115V, 60 Hz motor; 1-foot, 3-cond. cord set; and straight-thru spray gun with 30 ft. of high pressure flexible hose. Separate control pump, burner and 1/8 HP, 1725 RPM, manual thermal protected burner motor. Ready to operate. 3/4" garden hose connection. Two-compartment tank holds up to 3 gallons of water and 6 1/2 gallons of fuel oil. Dimensions: 41 L x 19 W x 42" H. Jet-O-Matik brand (2500-OF). Wt. 365 lbs.

No. 3Z332. Hot Water Sprayer-Washer. Retail \$837.00. Each, freight prepaid.....**\$653.87**

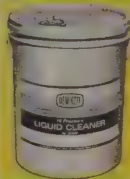
DEM-KOTE HI-PRESSURE CLEANER

\$26.12

Lots 3

Liquid concentrate for high pressure washers. Cleans all metal and painted surfaces, eliminates sludge and line plug ups, emulsifies grease and oil. Non-flammable. Won't harm paint. In 5-gal. steel drum with spout. Dem-Kote brand. Shpg. wt. 51 lbs.

No. 3Z334. Retail \$34.95. Each \$28.30; lots 3**\$26.12**

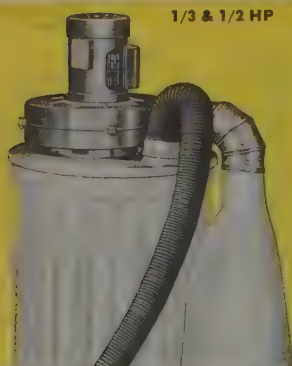


90-Day Limited Warranty on Parts, One Year Limited Warranty on Motor & Pump. See Limited Warranty Policy in Index

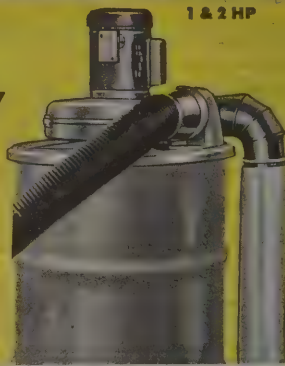
SEE WARRANTY INFORMATION ON PAGE 684

COLLECTORS for SAWDUST, WASTE, LINT & SCRAP

For Use on All Types of Waste-Creating Equipment—Wood & Metalworking Machines, Etc.



1/3 & 1/2 HP



1 & 2 HP

No. 1Z726
\$99.97
Lots 3

A must for maintaining clean, safe condition around waste-creating machines in workshops, factories, processing plants, etc. Powerful, self-cleaning aluminum radial pressure fan picks up sawdust, wood chips, metal shavings, lint, dust, etc. Chips and heavier particles drop to bottom of can while lighter particles are trapped in large dust-filter bag. Comes with 5 ft. flexible air hose. Can also be piped out of building on permanent installations. 1/3 and 1/2

HP units are designed to fit on 20 or 24 gal. waste can; 1 & 2 HP units on 55 gal. drum (can or drum not included). All units have totally enclosed, fan cooled motors for use in dusty, dirty, oily or corrosive atmospheres. Motors are capacitor-start or 3-phase, both 60 Hz. 55° C. ris 3450 RPM, continuous duty—with prelubricated ball bearings. Automatic reset thermal protection on capacitor-start, single phase motors. 8' 3-cond. cord set. Cincinnati Fan brand.

HP	Motor Phase	Motor Volt†	Low Voltage Amps	Blower Wheel	Blower Performance Specifications							Mfrs. Model	Stock No.	Each	Lots 3	Sh W
					CFM	SP	Air Veloc.	DB* Rating	Hose Dia.	Plate Dia.						
1/3	1	115/208-230	7.6	8"	335	3"	6824	76	3"	18"	33	1Z726	\$108.82	\$ 99.97		
1/2	1	115/208-230	7.6	9	450	7	9150	78	3	18	50	1Z967	163.94	142.37		
1	1	115/208-230	12.0	10½"	700	4½"	8000	83	4	24	100	1Z863	214.92	186.64		
1	3	208-220/440	3.2	10½"	700	4½"	8000	83	4	24	103	1Z864	214.92	186.18		
2	3	208-220/440	5.4	12½"	1100	8½"	8069	85	5	24	200	3Z002	304.70	264.60		

(*) Decibel reading at 5 ft. with hose, elbow and bag attached. (†) Prewired in lower voltage.

STEEL HOSE NOZZLES

For use with Above. Cincinnati Fan Brand



No. 1Z857
No. 2Z057



No. 1Z858
No. 2Z058



No. 1Z860
No. 2Z059

Type Nozzle	Stock No.	Retail	Each
4x4" Sq. Suction for 3" hose	1Z857	\$6.95	\$4.61
5x5" Sq. Suction for 4" hose	2Z057	6.95	4.77
3x5" Side Intake for 3" hose	1Z858	6.95	4.97
4x8" Side Intake for 4" hose	2Z058	7.95	5.49
7x1" Flat Nozzle for 3" hose	1Z860	6.95	4.97
8x1½" Flat Nozzle for 4" hose	2Z059	6.95	4.97
3" Dia. Stainless Hose Clamp	1Z862	.84	.50
4" Dia. Stainless Hose Clamp	2Z060	.94	.56
4 to 3" Reducer Fitting	1Z809	4.95	3.75
Y Fitting for two 3" hoses	2Z167	12.95	7.53
Fits 32002 only			

EXTRA 5 FT. AIR HOSE KITS

Kit contains 5 ft. length of flexible hose, one connector and two stainless steel hose clamps.

Dia.	Stock No.	Retail	Each	Lots 3	Wt.
2½"	1Z891	\$13.95	\$9.85	\$8.23	2½"
2	1Z890	15.95	11.31	9.45	3½"
3	2Z061	17.95	13.29	11.11	4½"

DEM-KOTE FLOOR SEALER

- Durable Floor Coating
- Resists Wear. Makes Cleaning Easier
- Covers up to 1,000 sq. ft. in One Coating

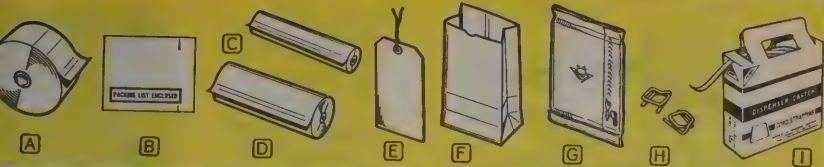
\$47.30

Lots 3



Epoxy based liquid floor sealer seals out grease and grime. Makes cleaning of floors easier. U on concrete, wood, linoleum, steel and co floors. Improves strength and durability floor surface. Resists wear from chemical actions, cleansers, foot and vehicular traffic. Light, semi-transparent color, semi-gloss finish. For use in schools, industrial plants, warehouses, garages, etc. Comes in 5 gal. steel drum with spout. Dem-Kote brand. Shpg. wt. 38 lb. No. 2Z989. Dem-Kote Floor Sealer. Retail \$64. Each \$49.80; lots 3.....\$47.

TAPE, TAGS & OTHER SHIPPING ROOM SUPPLIES



REINFORCED GUMMED TAPE

Three-way reinforced sealing tape, 3" wide, 5 ft. per roll. Cuts packing cost with one-strip sealing; uses less tape, cuts labor time in half. Fits most manual and electric paper tape dispensers. Meets Rule 41 and Mil Spec PPP-T-45. Mottled white. Shpg. wt. 3¾ lbs.

No. 4X877. Retail \$7.29. Each \$4.37; lots 8, \$4.01

GUMMED WHITE PAPER TAPE

Heavy-duty virgin kraft gummed tape for sealing packages and cartons at counter or in shipping room. Fits most hand and automatic 3" wide dispensers. Each roll 3" wide, 600 ft. long. Mottled white. Meets rule 41 when using 3-strip sealing and Mil Spec PPP-T-45. Shpg. wt. 4 lbs.

No. 4X876. Retail \$4.49. Each \$2.69; lots 10, \$2.47

PACKING LIST ENVELOPE

Deliver packing list every time. 4½ x 5½" self-adhesive packing list envelope sticks to carton; transparent face makes packing list easy to see. Boxes of 500. Shpg. wt. 5 lbs.

No. 4X885. Each \$17.49; lots 5, \$14.39

40-LB. KRAFT WRAPPING PAPER

High quality virgin kraft paper for wrapping packages for shipment. 9" dia. roll, 24" wide. Can be used for floor and wall protection by painters and contractors; eliminates bulky tarps and drop cloths on interior jobs. Shpg. wt. 35 lbs.

No. 4X874. Each \$18.09; lots 5, \$16.55

PROTECTIVE PAPER PADDING

Virgin Kraft padding paper for wrapping fragile items for shipment. 15" dia., 24" wide roll. Can be placed near packing bench. Padding tears off easily, provides excellent cushioning. Shpg. wt. 56 lbs.

No. 4X875. Each \$18.42; lots 5, \$16.86



STOCK AND SHIPPING CARTONS

Made of Durable 200 Lb. Test Corrugated Kraft Stock
Available in 6 Popular Sizes for Most Packaging Needs

No. 1W987

\$5.09

Per Bundle, Lots 12
Bundles of 50

Widely used by manufacturers, parts depts., retail stores, mail order houses and others for shipping motors, parts, tools and hundreds of other products safely and economically. Approved for parcel post, express, rail and truck shipments.

Meet all Federal specifications for domestic shipments. Easy to assemble and seal using reinf. or plain gummed tape listed above. Available in small quantities at large quantity prices.

Inside Dimensions W x D x H	Number Cartons In Bundle	Stock No.	PRICE PER BUNDLE				Shpg. Wt. Per Bundle
			Retail	Each	Lots 4	Lots 8	
6 x 4"	50	1W987	\$12.00	\$6.02	\$5.71	\$5.42	\$5.09
6 x 6"	50	1W988	15.10	7.56	7.17	6.81	6.40
8 x 6"	50	1W989	19.40	9.69	9.19	8.72	8.20
10 x 8"	25	1W990	17.75	8.87	8.41	7.99	7.51
10 x 10"	25	1W991	16.95	8.47	8.03	7.63	7.17
12 x 10"	25	1W992	21.50	10.75	10.19	9.67	9.09

SEE WARRANTY INFORMATION ON PAGE 684

E WIRED LABELING TAGS

3 x 6" wired tags useful for attaching shipping label or other identification. Tag is heavy-duty natural kraft paper, with wire thru reinforced hole. In cartons of 1,000. Shpg. wt. 7 lbs.

No. 4X886. Carton 1,000 \$18.04; lots 5, \$16.44

F EXTRA-HEAVY DUTY PAPER BAGS

Heavyweight paper bags provide low cost packaging for customer pick-up. Use for picking orders, packaging self-service orders, etc.

Size (Open)		Load Rating	Stock No.	Bundles of 250 Bags Each	Shpg. Wt.
L	W				
4"	3"	8"	2 lb.	4X881	\$2.51
6"	3½"	11"	6	4X882	3.50
7"	4½"	14"	12	4X883	5.06
8"	5"	18"	25	4X884	8.45

G PADDED SHIPPING BAGS

Provide protection for small items during Parcel Post and United Parcel shipment. Pull-tab opening on back. Jiffy Brand. Carton lots only.

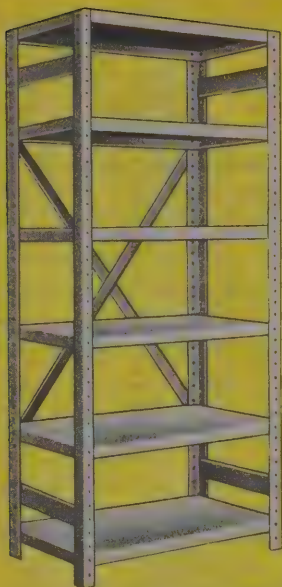
Size	Carton Qty.	Stock No.	Retail Per Ctn.	Carton Each	Shpg. Wt.
7¼x12"	100	4X878	\$19.65	\$9.81	20
9½x14½"	100	4X879	25.85	12.91	30
14½x20"	50	4X880	29.75	14.87	30

HI CORD BUCKLES, STRAPPING

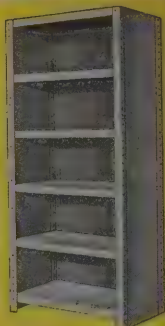
Versatile, strong plastic cord strapping for securing shipments to pallets, binding boxes to protect from damage during shipping. ¾" wide, 375 yds. long strap comes in handy dispenser carton. Hand applied, no expensive equipment needed. Eliminates unsightly twine and rope. Buckles sold separately.

Item	Stock No.	Retail	Each	Wt.
Ctn. of 1000 Buckles	4X888	\$36.36	\$18.18	8
¾"x375 yds. Strapping	4X887	35.46	17.73	4¾

ALL-STEEL, INDUSTRIAL-GRADE OPEN AND



Available in
85" High,
36 & 48" Wide,
12 to 24" Deep
Units



B CLOSED UNIT

Adjustable shelf clip
speeds assembly
and permits easy ad-
justment of shelves
without disturbing
adjoining units.

A OPEN UNIT



C BIN UNIT

Large Local Stocks—Quantity Prices on Request

Seven basic shelving units permit user to select unit or combination of units to meet specific storage requirements. Units are free standing, may be used alone or in rows, on open floor or against walls plus any combination of styles can be used together to create customized storage areas. Full line of interchangeable accessories—dividers, shelf drawers, ledges, doors, etc. may be selected for present storage needs or added later as future storage requirements change—without disturbing present shelving installations.

Shelves are held firmly in place with adjustable shelf clips that permit fast assembly and easy adjustment without disturbing shelves in adjoining units. Unique, one-piece side stringer brace permits common post assembly for speedy erection when multiple units are to be installed. Quality built throughout with certified load ratings. Phosphatized process pre-cleans, etches and coats metal prior to finish coat of gray baked-on enamel and assures maximum adhesion and protection against rust and chipping. Available in 36" standard width in all styles plus economical 48" width open or closed units. Shipped unassembled, complete with instructions. Assemble easily with hand tools. Edsal brand.

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated, to railroad or trucking terminals within the United States (except Hawaii and Alaska), using routing of our choice. Charges for delivery from terminal (if any) must be paid by consignee.

SUPERIOR CONSTRUCTION



HEAVY, 18 GA. STEEL SHELVES support up to 6 lbs.—certified capacity based on uniform distribution load. Box-formed edges at side triple-formed at front and back. Punched 2" OC for dividers.



STURDY SHELF CLIPS support shelf and fit securely corner-post punchings, 1" OC. No tools required. Clip easily removed for repositioning shelves. Sway braces give added support on back units.



LOCKING STRINGER BRACE interlocks into off of post to provide a rigid frame. 14-gauge steel posts.

Use Fast Grainger Supply Service — Large Stocks Maintained Near You
You Are Served by Experienced Men and Women Who Know Your Needs

ENCLOSED SHELVING AND STORAGE UNITS



D BIN-DRAWER **E** CLOSED SHELF UNIT, LEDGE COMBINATION

F HALF DOOR

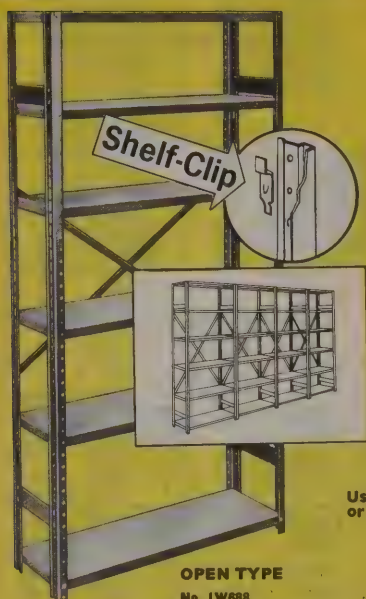
G FULL DOOR

DESCRIPTION	SHELVES Deep	Wide	Lb. Cap.	Stock No.	Retail	Each	Lots 10	Lots 25	Shpg. Wt.
6-SHELF OPEN UNITS									
2, 18 and 24" standard depths x 48" widths. Heavy, 18-gauge steel shelves are adjustable 1" and held securely by shelf pins. Shipped unassembled.	12"	36"	600	7W073	\$53.15	\$39.88	\$37.24	\$35.32	70
	18	36	600	7W074	65.15	48.85	45.62	43.32	80
	24	36	600	7W075	78.17	58.66	54.72	51.96	108
	12	48	400	7W076	65.15	48.88	45.14	43.30	108
	18	48	350	7W077	77.75	58.33	54.44	51.72	117
	24	48	300	7W078	96.41	72.34	67.50	64.14	140
3-SHELF CLOSED UNITS									
2, 18 and 24" standard depths x 48" widths. Back and end panels of sturdy 22 gauge steel. Attractive appearance — use as office or room partition.	12	36	600	7W033	79.12	59.47	55.52	52.69	112
	18	36	600	7W034	95.16	71.36	66.63	63.28	141
	24	36	600	7W035	111.73	83.83	78.21	74.28	169
	12	48	400	7W048	96.19	72.16	67.37	63.94	149
	18	48	350	7W049	112.70	84.54	78.91	74.96	177
	24	48	300	7W050	134.89	101.20	94.44	89.73	226
CLOSED BIN UNITS									
15" x 12 or 18" D. 6 openings per unit. 12" W and 9 openings 15" H. Dividers adjust 2" O.C.	12	36	600	7W036	100.36	75.29	70.28	66.71	130
	18	36	600	7W037	121.52	91.13	85.08	80.81	168
BIN-DRAWER UNITS									
15"H x 6"W and eight 18"H x 12"W bin openings plus twelve 5 1/2" x 12"W drawers. Open shelf 24" high.	12	36	600	7W051	155.61	116.70	109.02	103.45	168
	18	36	600	7W052	187.15	140.41	131.00	124.43	224
CLOSED LEDGE UNITS									
12 x 39"H work ledge. Light assembly or order-filling ledge also available separately.	12 & 24	36	600	7W053	130.53	97.92	91.40	86.78	160
	18 & 30	36	600	7W054	146.42	109.81	102.51	97.37	189
	24 & 36	36	600	7W055	162.99	122.28	114.09	108.37	217
	Ledge Unit Only			1W879	51.26	38.45	35.88	34.09	43
SHELVING DOORS									
37" W x 85" H full size & 36" W x 85" H for half closure of 36" W ledge shelving units with drawers. 20 ga. doors swing 180°—have lock in T-handle.	37" Door Set			1W880†	53.04	39.78	37.13	35.27	36
	85" Door Set			1W881	93.69	70.27	65.58	62.30	74
(†) Order 2 where closure on both upper & lower section of ledge shelving unit is required, as illustrated.									
RA SHELVES									
Laboratory rated and tested—capacity listed based on uniform distribution of load. 36" wide shelves attached 2" O.C. for dividers. Shelf clips. Priced per shelf sold in standard pack lots of 7.	SHELF Deep	W.	Cap.	No. in Carton	Stock No.	PRICE and WT. PER SHELF			
						Retail	Lots 6	Lots 24	Lots 48 Wt.
	12"	36"	600	6	1W933	\$5.45	\$4.09	\$3.82	\$3.62 7
	18	36	600	6	1W934	7.31	5.48	5.12	4.86 10
	24	36	600	6	1W935	9.30	6.98	6.51	6.18 13
	12	48	400	6	1W936	7.45	5.59	5.22	4.95 10
	18	48	350	6	1W937	9.41	7.06	6.59	6.26 15
	24	48	300	6	1W938	12.34	9.26	8.64	8.21 19
F REINFORCING CHANNEL									
Increases rating 50%, two times the shelf capacity. Locks with shelf clips. Set of 4.	Channel			Stock No.	Retail	Each Set of 4	Each Lots 10	Each Lots 25	Shpg. Wt.
	For 36" Shelf			1W882	\$5.98	\$4.49	\$4.19	\$3.98	7
	For 48" Shelf			1W883	7.38	5.54	5.17	4.91	8

SEE WARRANTY INFORMATION ON PAGE 684

COMMERCIAL GRADE STEEL SHELVING UNITS

Open & Closed Types with 6 Shelves. Shelf Clip Mounts. Heavy-Duty Construction

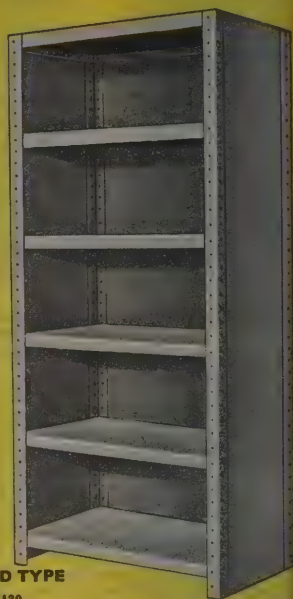


Use Singly
or in Rows

OPEN TYPE

No. 1W688

\$26.10 Lots 6



CLOSED TYPE

No. 7W130

\$41.01 Lots 6

Quality built units will handle hundreds of storage requirements in commercial and light industrial applications. Heavy gauge steel is used throughout for high load capacity. Do not confuse with weaker furniture grade steel shelving. Units can be used alone or installed in continuous rows to the overall system configuration best suited for the area. Each unit is complete and can be moved independently—numerous arrangements and rearrangements can be made without dismantling. Open type shelving comes with 6 shelves, 4 corner posts and braces for back and sides. Closed type has all of the items mentioned, plus slide-in back and end panels. Edsal brand.

STANDARD FEATURES INCLUDE:

- Six shelves of 22 gauge box-formed steel—to 450 lbs. capacity per shelf.
- Rigid 16 gauge posts, 75" high and punched 1" centers so shelves can be positioned where desired.
- Shelf clips for fast, secure shelf installation—no bolts, nuts or tools necessary.
- 13 gauge back braces, 16 gauge side braces.
- Rust-resistant gray enamel finish.

Prepaid Freight on Shipments of 300 lbs. & Over

OPEN TYPE, 6-SHELF HEAVY-DUTY UNITS

—Shelves—		Capacity per Shelf	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
D	W						
12"	36"	450 lb.	1W688	\$32.63	\$27.74	\$26.10	53
18"	36"	450 lb.	1W689	41.88	35.60	33.50	67
24"	36"	400 lb.	1W851	53.47	45.45	42.78	84

CLOSED TYPE, 6-SHELF HEAVY-DUTY UNITS

12"	36"	450 lb.	7W130	\$55.05	\$43.43	\$41.01	90
18"	36"	450 lb.	7W131	68.55	54.27	51.24	112
24"	36"	400 lb.	7W132	84.82	67.40	63.63	138

EXTRA SHELVES FOR ABOVE UNITS WITH SHELF CLIPS—Sold in Cartons of 4

—Shelves—		Capacity	No. in Carton	For Unit	Stock No.	PRICE & WEIGHT PER SHELF			Wt.
D	W					Retail	Each	Lots 12	
12"	36"	450 lb.	4	1W688, 7W130	1W690	\$3.59	\$3.05	\$2.87	5 1/2
18"	36"	450 lb.	4	1W689, 7W131	1W691	4.90	4.17	3.92	7
24"	36"	400 lb.	4	1W851, 7W132	1W852	6.54	5.56	5.23	11

NO-SPILL CORRUGATED STORAGE BIN CARTONS

4 & 8" High. For 12 or 18" Deep Shelves. Extra Strong 200 Lb. Test. Easy-to-fold Assembly
Permanently Self-locking Construction. 1/2" No-spill Back Lip. Dayton Brand

Dayton



\$5.38

25 Storage Bins
4" H & 2" W

NO-SPILL LIP

1/2" lip on back of bin secures it when fully extended for use. It catches on underside of upper shelf and leaves both hands free.

BIN DIVIDERS

Available for 2 to 8" width bins. Easily installed wherever needed and permits maximum and efficient use of bins.

DIVIDERS FOR 2 to 8" STORAGE BINS

Bin Width	Ht.	Stock No.	Retail	Bundle 72 Dividers	Lots 5 Bundles	Shpg. Wt.
4"	4"	1W863	\$6.90	\$3.46	\$3.03	1 1/2
8"	4"	1W864	9.30	4.66	4.08	2

The efficient, low-cost method for storing small pieces in a minimum shelf-space—yet readily available. Sturdy, one-piece, die-cut, high-quality, oyster-white, 200 lb. test, B flute corrugated board bin cartons. Self-locking construction; assembled in seconds and will not come apart. Reinforced 4-ply, back-lip catches underside of upper shelf to give easy angle-access to content of carton and prevent spilling. Priced and sold only in bundles of 15 or 25 flat cartons per individual size. Available in 4 or 8" height, in various widths for 12 or 18" deep shelves.

4" HIGH STANDARD STORAGE BINS

Priced and Sold only in Bundles of 25 Pieces

Bin Width	Shelf Depth	Stock No.	Retail	Bundle 25 Ctns.	Lots 10 Bundles	Shpg. Wt.
2"	12"	1W765	\$10.75	\$5.38	\$4.78	4
4"	12"	1W766	12.25	6.13	5.44	5 1/2
6"	12"	1W767	13.65	6.83	6.07	5 1/2
8"	12"	1W768	15.05	7.53	6.69	7 1/2
10"	12"	1W862	16.40	8.20	7.29	8 1/2
12"	12"	1W769	17.35	8.68	7.71	9 1/2
2"	18"	1W770	12.85	6.43	5.71	4
4"	18"	1W771	13.80	6.90	6.13	6
6"	18"	1W772	15.20	7.60	6.76	8 1/2
8"	18"	1W836	16.80	8.40	7.47	9

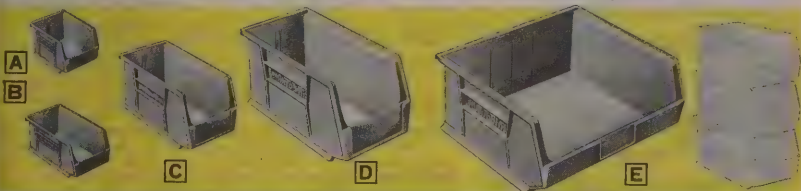
8" HIGH LARGE CAPACITY STORAGE BINS

Priced and Sold only in Bundles of 15 Pieces

Bin Width	Shelf Depth	Stock No.	Retail	Bundle 15 Ctns.	Lots 10 Bundles	Shpg. Wt.
4"	12"	1W955	\$11.05	\$5.52	\$5.02	6 1/2
6"	12"	1W956	12.10	6.04	5.49	5
8"	12"	1W957	13.30	6.64	6.04	7
10"	12"	1W958	14.40	7.20	6.55	8
12"	12"	1W959	15.10	7.54	6.85	12
6"	18"	1W960	14.10	7.06	6.42	9
8"	18"	1W961	15.25	7.62	6.93	9 1/2

OLDIED POLYPROPYLENE STACKABLE STORAGE BINS

Available in 5 Sizes for Storing, Transporting & Assembling Small Parts, Components and Finished Goods. Fit on Most Shelving and Straight Rail Systems



lasting, molded polypropylene bins are tically unbreakable; don't rust or corrode; are impervious to water, oils and most chemicals. Can be used on shelving, most rail systems or stacked, to save space. Reinforced design prevents bins from spreading under allows higher stacking. Wide stacking

ledge keeps bins in place. Slide stop at front of stacking ledge keeps loaded bins from shifting forward when moved. Use same bin for storage, transporting and assembly work—no need to transfer contents. Have slot for computer-size control cards or large label card, plus finger grips for easy handling. Red. Akro-Mils brand.

PRICED EACH—SOLD IN CARTONS OF 6, 12 OR 24 ONLY, AS SPECIFIED IN TABLE

Outside Bin Dimensions			Inside Bin Dimensions			Stock No.	Retail	Each, in Carton Lots	Carton Quantity	Shpg. Wt. Per Ctn.
W	D	H	W	D	H					
4 1/8"	5 3/8"	3"	3 1/8"	4 3/8"	2 1/8"	2W072	\$0.60	\$0.48	24	4 1/2
4 1/8"	7 3/8"	3"	3 1/8"	6 3/8"	2 1/8"	2W073	1.10	.88	24	7 1/2
5 1/8"	10 1/8"	5	4 3/8"	10 1/4"	4 3/8"	2W074	2.60	2.08	12	9 1/2
8 1/4"	14 1/4"	7	6 3/4"	14	6 3/4"	2W075	5.25	4.20	12	22
16 1/2"	14 1/4"	7	14 3/4"	14	6 3/4"	2W076	7.35	5.88	6	18

SEE WARRANTY INFORMATION ON PAGE 684

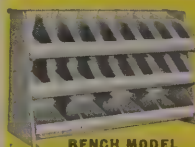
PICK-RACK SMALL PARTS STORAGE SYSTEMS

Widely Used Where Quick, Fingertip Access and Portability are Desired

\$25.55

7W027
Lots 3

An efficient, low cost stocking system for small parts at point of use. Widely used in repair shops, maintenance dept., service trucks, etc. where quick, fingertip access and portability are required.



BENCH MODEL

Makes an effective self-service display—every bin can be labeled for user convenience and can be changed by switching bins. Has same heavy-duty, oyster white bin cartons listed elsewhere in this section, see index under "Bin Cartons." Requires minimum space, yet stocks up to 118 small parts per unit. Racks are rigid steel construction. Mobile rack has 26 x 36" dolly with 3" casters for easy mobility. All units are free standing, and where necessary, can be bolted to bench top, floor or wall. Gray enamel finish. Shipped unassembled, easily set up. Edsal brand.



FLOOR MODEL



MOBILE MODEL

PICK RACK STORAGE UNITS WITH 4 and 8" WIDE BIN CARTONS

Model	Tiers	No. Bins	Bin Width	H	Dimensions D	W	Stock No.	With Bins Retail	Each	Lots 3 Asst'd	SP
Bench	3	16 4	4" 8"	21½"	12"	33½"	7W027	\$37.80	\$27.21	\$25.55	2
Floor	8	48 8	4" 8"	61"	12"	33½"	7W028	87.17	62.86	59.02	5
Mobile Twin Rack	16	96 16	4" 8"	65"	26"	33½"	7W029	213.48	156.42	147.79	14

PICK RACK STORAGE UNITS, LESS BINS (SEE BIN SELECTION ELSEWHERE IN THIS SECTION)

Bench	3	None	—	21½"	12"	33½"	1W784	\$26.80	\$21.71	\$20.37	2
Floor	8	None	—	61"	12"	33½"	1W785	62.17	50.36	47.25	4

STORE-ALL SHELVING UNITS

Sizes to Handle 40 & 80 Bin Cartons. 36" W Shelves
Bin Cartons 4 & 8" W Included with Units

\$29.27

40-Bin, Lots 10

\$66.00

80-Bin, 12" Deep
Lots 10

Does a big storage job for small pieces in small amount of space. 40-in. bin Store-unit comes with 32 four-inch and 8 eight-inch wide bin compartments and a 6-shelf furniture-grade steel rack, 40 H x 36 W 12" D. 80-bin units have 64 four-inch and eight-inch wide compartments, with a shelf commercial grade rack 75 H x 36 W 12" or 18" D—rated 400 lbs. per shelf. Unit feature sturdy, one-piece die-cut B flute corrugated metal. Spill bin cartons with self-locking construction. Cartons are oyster white color, rated 200-lb. test—can easily assembled in seconds. Specially designed and constructed 4-ply 4½" high back lip catches the underside of above shelf giving easy access to contents while preventing spillage. Store-All units solve countless storage problems in shop, office, home and farm. Shipped unassembled. Shelf-unit has gray baked enamel finish. Edsal brand.

No. Bins	Bin Depth	Stock No.	Retail	Each	Lots 10	Shp Wt
40	12"	7W023	\$44.00	\$31.10	\$29.27	8
80	12"	7W045†	97.35	70.14	66.00	11
80	18"	7W060†	124.68	90.80	85.42	15

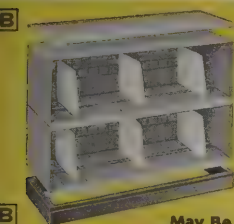
(†) Commercial grade rack, other furniture grade.

40-BIN STORAGE UNIT, LESS BIN CARTONS

No. 1W763. 40 Bin Unit. 12" deep. Shipped unassembled. Shpg. wt. 29 lbs. Retail \$26.00. Each \$22.10; lots 10. \$20.

COMMERCIAL DUTY OPEN-SHELF STACK CABINET

All Steel Construction. Stores Standard Letter Size Records, Catalogs and Brochures



A

**Cabinet
Consisting of
Two Shelves**
\$36.49
Lots 3

**May Be
Stacked
as Shown**



B
**Cap and Base
Assembly**

\$13.15
Lots 3

Dayton

A Double shelf open cabinet stores literature and correspondence visibly and vertically for easy accessible filing. Units are suitable for storing correspondence folders, bookkeeping records, sales brochures, catalogs, manuals and similar frequently used reference material. Top, sides and back of shelves are 24 gauge steel, bottom is 20 gauge steel. One cabinet consists of 2 stacked shelf units each 33 $\frac{1}{2}$ " W x 10 H x 12" D inside dimensions. Additional cabinet units may be stacked to provide more storage space in existing floor area. Three movable file stops included with each shelf. One fully assembled cabinet (2 shelf units) packed per carton. Gray enamel finish. Overall dimensions (2 stacked shelf units): 34 W x 22 H x 12 $\frac{1}{4}$ " D. Shpg. wt. 40 lbs. Dayton brand.

No. 3W099. Open-Shelf Stack Cabinet. Retail \$54.75. Each \$38.32; lots 3.....\$36.49

B Cap and base assembly for stack cabinet. Gives a "finished" appearance to each single or multiple stacked installation. 20 gauge steel. Cap is gray enamel, fits over top of uppermost shelf unit. Base is black, measures 34 W x 3 H x 12 $\frac{1}{4}$ " D. Shpg. wt. 18 lbs.

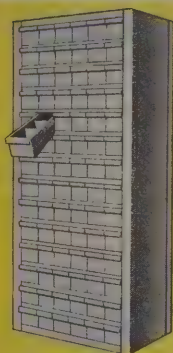
No. 2W201. Cap and Base. Retail \$19.75. Each \$13.83; lots 3.....\$13.15

COMPONENT PARTS STEEL STORAGE UNITS

36 & 84 Drawer Units, 85 H x 36 W x 12 or 18" D. Extra Drawers Available



**Drawer Unit with
Shelf Openings**



**84-Drawer
Storage Unit**

\$187.79 Edsal parts storage units provide up to 252 individual storage compartments for maximum efficiency in storing small and medium sized parts. Each drawer comes complete with 2

No. 7W056

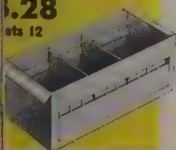
dividers adjustable at 1" spacing making 3 storage compartments. Industrial, heavy-duty drawers are formed of 20 ga. steel and feature No-Spill back stop which catches on under side of upper shelf. Comes with full-length handle and label holder as part of drawer—omits time consuming assembly. Industrial grade closed shelving unit—certified rated at 600 lbs. per shelf based on uniform distribution of load over shelf area. Shelf units are 85" high x 36" wide, either 12 or 18" deep, with 13 ga. uprights, 18 ga. shelves and embossed back and end panels of 24 ga. steel. Gray enamel finish is compatible with most other storage equipment.

Units are free standing—use singly or in rows, back to back or against wall. Provides storage system for office, shop, factories, etc. Shelving component shipped unassembled with complete easy set-up instructions and hardware. Drawers come fully assembled ready to install in assembled unit. Edsal brand.

PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

of ers	Indiv. H	Drawer Dim. W	D	Overall Cabinet Dim. H	W	D	Stock No.	Retail	Each	Shpg. Wt.
	4 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{4}$ "	85"	36"	12"	7W056	\$250.47	\$187.79	234
	4 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	17 $\frac{1}{4}$ "	85"	36"	18"	7W057	299.36	224.68	311
	4 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{4}$ "	85"	36"	12"	7W058	476.92	357.52	423
	4 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	17 $\frac{1}{4}$ "	85"	36"	18"	7W059	569.19	427.28	534

1W877
\$3.28
lots 12



DRAWERS FOR SHELVING & STORAGE UNITS

Steel Construction. Fit 12 and 18" Deep Shelving & Drawer Units
Includes Two Adjustable Dividers. Priced Per Drawer in Lots of 12 Only

Drawer For:	Overall Dimensions H	W	D	Stock No.	Retail	Lots 12 Each	Shpg. Wt.
12" Shelf Depth*	4 $\frac{1}{2}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{2}$ "	1W877	\$4.15	\$3.28	2 $\frac{1}{2}$
18" Shelf Depth*	4 $\frac{1}{2}$ "	5 $\frac{1}{8}$ "	17 $\frac{1}{2}$ "	1W878	4.86	3.80	3 $\frac{1}{2}$

(*) Front to rear shelf depth.

ALL STEEL WORK/MACHINE STANDS

16-Gauge Steel Top. Adjustable Height Range. Hold up to 500 Lbs.



1W972
\$23.12
Lots 3

Adjustable
Legs

All steel constructed stands provide additional work and storage space around production machines and other equipment and are equally suited for use as machine stands. Hold evenly distributed loads up to 500 lbs. Stands have 16-gauge steel top interlocking heavy-gauge channel frames and formed steel legs. Footplate on bottom of legs prevent cutting floor surface and allow legs to be bolted to floor, can easily be moved when required. Units available in 18 x 24" and 24 x 36" top sizes with either 18 to 24-inch or 24 to 36-inch adjustable legs. Legs adjust on 2" increments. Gray enamel finish. Units shipped disassembled, assemble with ordinary hand tools. Edsal brand.

Top Size	Height Range	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
18 x 24"	18-24"	1W972	\$30.42	\$24.64	\$23.12	23
18 x 24	30-36	1W973	33.12	26.83	25.17	26
24 x 36	18-24	1W974	41.53	33.64	31.56	32
24 x 36	30-36	1W975	44.36	35.93	33.71	35

SPIN-A-BIN, 20 SECTIONS

12 1/2" Diameter 18" High
4 Revolving Trays



\$18.45
Lots 3

Saves space and time in handling small parts, etc., everywhere used. Unit has four trays that revolve on ball bearings and each tray has five sections to yield 20 sections. Unit is 12 1/2" dia. and 18 1/4" high. Welded steel construction. Shpg. wt. 12 lbs.

No. 1W335. Spin-A-Bin. Ret. \$25.20. Each \$20.15; lots 3 \$18.45

PIGEON-HOLE STORAGE UNIT

\$53.93 Lots 3



Provides up to 56 openings, 5 H x 9" D x 1 1/2" width, on 7 shelves. Snap-in vertical dividers are adjustable on 1" centers. Horizontal dividers have label slots. 24 ga. steel. 34 1/4" W x 37 1/2" H x 9" D. Shipped unassembled. Edsal brand. (B49) Shpg. wt. 10 lbs.

No. 1W692. Retail \$70.15; lots 3 \$53.93

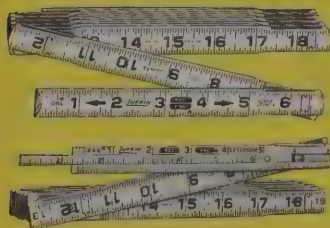
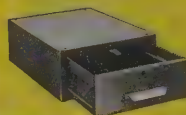
Each \$57.48; lots 3.....

STACKABLE DRAWER UNIT

All Steel Construction. Use Individually or in Multiple Units Set Side-by-Side or Stacked.
For Small Parts, Tools, Shipping Labels, Stationery Supplies, Etc.

Completely self-contained, versatile drawer measures 17 1/4" W x 6 1/2" H x 20" D. Requires no frames when stacked as each drawer bolts to the next for true positioning. Front panel has knock-out for key lock available separately from Chicago Service Dept. Sturdy, all-steel construction. Includes hardware. Shipping wt. 15 lbs. Edsal brand.

No. 1W976. Each \$25.60; lots 3..... \$24.02



(Top)
Standard Rule
\$2.92
Lots 6

(Bottom)
Extension Rule
\$4.42
Lots 6

LUFKIN

6 FT. FOLDING RULES

Available with or without 6" Slide Extension

Widely used by carpenters and other professional craftsmen. Bold red and black markings are embedded in wood, and contrast sharply against white background. Markings are protected by clear, tough epoxy coating—won't chip, peel or discolor. Marked both sides in 16ths with 16" steel centers in red. Riveted brass lock joints are designed to eliminate end play. End caps and strike plates are solid brass to prevent wear. No. 6X11 has a graduated brass slide which extends a full 6" for taking short measurements without opening rule. Lufkin brand. Shpg. wt. 5 oz.

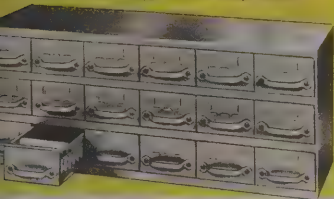
Type Rule	Mfrs. Model	Stock No.	Retail	Each	Lots 6
Standard	066	6X108	\$4.49	\$3.14	\$2.92
Extension	X46	6X107	6.80	4.76	4.42

18 & 24 DRAWER PARTS STORAGE CABINETS

\$47.27 18 Drawers, each 5½" W
x 2" H. 12" Deep Cabinet



\$59.45 18 Drawers, each 5½" W
x 3½" H. 12" Deep Cabinet



"Scoop" type drawer fronts and dividers with curved bottom edges make removing parts easy, even when parts are small or few remain. Cabinets of same depth can be stacked to meet storage requirements, rearranged as needs change. Smooth-running steel drawers with fingertip pulls and no-spill stops are ideally suited for light or heavy parts. Two movable dividers furnished per drawer. Drawer fronts and dividers have label holders. Welded steel frame; industrial-gray baked-on enamel finish. Shipped assembled. Equipto brand.

Cabinet			Drawers			Stock	Each	Shpg. Wt.
D	W	H	No.	W	H	No.		
12"	34"	9¾"	18	5½"	2"	1W795	\$47.27	42
12	34	9¾	24	4¼	2	1W794	49.47	47
12	34	13¾	18	5½"	3½"	1W168	59.45	61
18	34	13¾	18	5½"	3½"	1W307	68.64	84

EXTRA DRAWER DIVIDERS, EQUIPTO CABINETS

Extra drawer dividers for Equipto cabinets are available. Write to Customer Service Department, Chicago stating the size of drawer the divider is to fit in and how many dividers you want.

13-DRAWER PARTS CABINET

Hinged Door With Lock Clasp. Steel Frame



\$7.52 Lots 3

Safely stores small articles. 10 W x 9 H x 6½" D rigid, welded steel frame houses twelve 2¾ W x 1¼ H x 5½" D, and one jumbo-size 8¾ x 2½ x 5½" transparent

drawer with adjustable divider. Hinged door with lock clasp and key. Baked-on enamel finish. Akro-Mils brand. (11-463.) g. wt. 6 lbs.

1W714. 13-Drawer Parts Cabinet. Retail \$5. Each \$7.91; lots 3.....\$7.52

SEE-THRU DRAWER CABINET



For storage of small parts, nuts, bolts, etc. One-pc. see-thru drawers are clear styrene plastic. Drawer divider and indexing labels with each drawer. Overall dimensions of box frame 9 H x 13 W x 6" D, except No. 2W059 measures 13½ H x 13 W x 6½" D. Blue enamel finish. Metal box frame. Akro-Mils brand.

No. —Drawer Size—				Stock	Each	Lots 3	Shpg. Wt.
Drws.	H	W	D	No.			
36	1¼"	2¾"	5¾"	2W059	\$12.12	\$11.47	9
24	1¼"	2¾"	5¾"	1W637	7.91	7.52	6½
12	2½"	2¾"	5¾"	2W058	7.67	7.30	6

DYMO TAPE LABEL-MAKING KIT



\$27.90
Kit

Kit includes 9½" chrome-plated zinc embossing tool with black plastic handle; 3 interchangeable embossing wheels; one roll each red and black self-stick vinyl tape; and molded plastic carrying case. Embosses both ¾ and ½" tape, letters horizontally or vertically, using interchangeable embossing wheels included. Dymo brand (1570-01). Shpg. wt. 2 lbs.

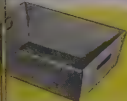
No. 6X109. Label Making Kit. Retail \$37.95. Each.....\$27.90

VINYL TAPE FOR LABEL MAKERS

Tape Color	Size	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
Black Vinyl	1½" x 18'	6X112	\$2.00	\$1.70	\$1.50	2 oz.
Red Vinyl	1½" x 18'	6X113	2.00	1.70	1.50	2 oz.

COATED TOTE BOXES

Double-Wall Construction. Coated Both Sides



\$13.58 Bundles of 10
Lots 5

For order filling, parts sorting, etc. 12 x 18" at top. 6½" deep. Capacity over 100 lbs. Self-locking

construction. Made of 200 lb. test corrugated

1. Resist oil, grease, water, etc. In bundles Weight per bundle, 12 lbs.

W818. Coated Tote Boxes. Retail \$31.00. bundle \$15.51; lots 5 bundles.....\$13.58

RECORD FILE/STORAGE BOXES

12W x 15D x 10" H. 200 lb. Test Corrugated Board



For records, job tickets, work orders, etc. 12 x 15" at top, 10" high. Made of 200 lb. test oyster-white corrugated board with lift-off top. Ships and stores flat, can be used, broken down, set-up and used again. Index printed on end panel. In cartons of 6 boxes. Shpg. wt. 8 lbs.

No. 1W865. Record File/Storage Boxes. Retail \$23.30. Each carton of six \$11.66; lots 5.....\$10.20

VERSATILE SMALL PARTS STORAGE SYSTEMS

Use Individually or Stack Same or Mixed Sizes in Practically any Arrangement.
Cabinets Available in 9 to 36 Drawer Units. Akro-Mils Brand

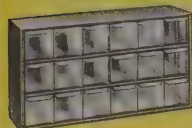
WITH TRANSPARENT DRAWERS



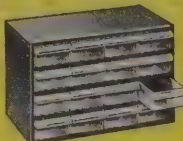
A



C



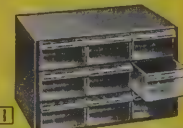
E



F



H

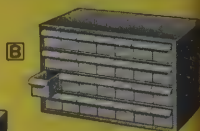


I

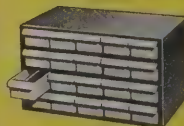
Compact steel frame cabinets can be intermixed and stacked, wall hung, set side-by-side or put on shelves to provide orderly storage using minimum space. Two types of non-spill drawers available: transparent and heavy duty gray molded. All units equipped with movable

WITH GRAY MOLDED DRAWERS

Use Individually
or
Stack Together



B

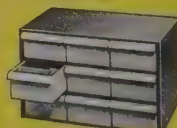


D

For Small Parts
Storage
in Shop or Office



G



J

All Units
Have
Lock-in Drawer
Dividers

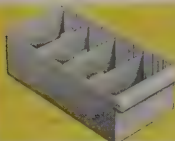
drawer dividers for subdividing storage in each drawer. Construction and divider features described below. Drawer pulls and cross dividers are slotted to accept label cards furnished. Individually cartoned for maximum protection during shipment. Akro-Mils brand

Fig.	Number of Drawers	Outside Drawer Dimensions			Outside Cabinet Dimensions			Stock No. (*)		Retail	Each	Sh. Wt.
		H	W	D	H	W	D	Transparent	Gray Molded			
A	36	1 1/4"	2 3/4"	5 3/4"	9 1/2"	18"	6"	1W897	—	\$26.25	\$19.69	11
B	28	2 1/8"	2 3/4"	11"	11"	18"	11"	—	1W920	43.40	32.55	22
C & D	20	2 1/8"	3 1/2"	11"	11"	18"	11"	1W899	1W900	39.00	29.25	21
E	18	2 1/8"	2 3/4"	5 3/4"	9"	18"	6"	2W057	—	26.25	18.50	10
F & G	16	2 1/8"	4"	11"	11"	18"	11"	1W901	1W781	39.00	29.25	21
H	15	3 1/2"	3 1/8"	11"	11"	18"	11"	1W902	—	39.00	29.25	20
I & J	9	3 1/2"	5 1/4"	11"	11"	18"	11"	1W903	—	39.00	29.25	10

(*) Select cabinet with type of drawer desired. See drawer description below.

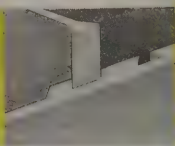
RUGGED DRAWERS

Transparent drawers are clear molded plastic. Gray molded drawers are heavy-duty super-high impact poly-styrene, with the color molded in.



LOCK-IN DIVIDERS

Lock into slots drawer sides, brackets so drawers fit smoothly, even when fully loaded. Tight, keep parts in own compartment.



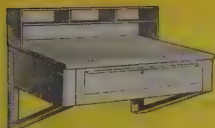
EXTRA DRAWER DIVIDERS, AKRO-MILS CABINETS. Extra drawer dividers for cabinets shown are available. Write to Customer Service Department, Chicago stating cabinet stock number, size of drawer the divider is to fit in and number of dividers desired.

PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you place pick-up orders by phone. Our people can have your merchandise ready when your truck arrives, and a special Will-Call section at our counter gives your driver extra-fast service.

WALL-HUNG, OPEN & CABINET STYLE SHOP DESKS

34½" W x 30" D. Floor Units Have Stand-Up Working Surface Height of 43" at Front



**BOLTS TO WALL,
SAVES VALUABLE
FLOOR SPACE**

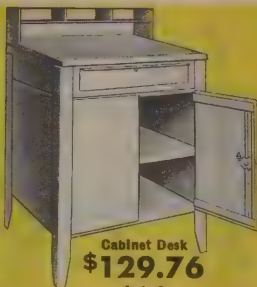
Wall Hung
\$66.10

Lots 3



Open Desk
\$77.07

Lots 3



Cabinet Desk
\$129.76

Lots 3

These saving desks provide a convenient, efficient working area for shop foremen, shipping receiving clerks, watchmen, etc. Measure 34½" wide x 30" deep. Riser at rear of working surface has three open compartments, each 3 H W x 11½" D, for storing paper, pencils, forms. Supplied with large 3½ H x 24 W x 28" D

drawer with lock which is mounted on 4 nylon rollers for smooth operation. Open style model has a foot rest; cabinet style, locking doors and a full size shelf adjustable 3" OC. Both floor units have stand-up working surface height of 43". Gray enamel finish. Shipped with assembly instructions and hardware. Edsal brand.

Unit Description	Desk Dimensions			Drawer Dimensions			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	H	W	D	H	W	D					
Wall Hung	(*)	34½"	30"	3½"	24"	28"	1W952	\$86.97	\$70.45	\$66.10	85
Open Desk	53"	34½"	30"	3½"	24"	28"	1W907	101.41	82.14	77.07	88
Cabinet Desk	53"	34½"	30"	3½"	24"	28"	1W908	170.08	137.76	129.76	150

Height from bottom of bracket to top of desk 47".

ONE & TWO DOOR WORK TABLE CABINETS

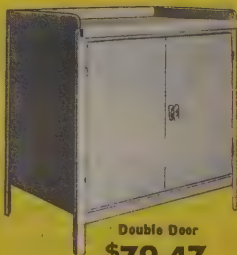
Double-Duty Storage Cabinet and Work Table. 34" High x 24" Deep x 24 or 36" Wide. 12 or 18 Cu. Ft. Storage Space

These heavy-gauge steel cabinets insure secure, locked-in storage of valuables, tools, merchandise, etc.—and serve as a work table with edge-stop on sides and back. Side and back panels are removable to obtain flat surface. Ideally suited for mounting vises, grinders, presses, office machines, etc. Double door model has 6 sq. ft. of work top area and 18 cu. ft. of storage space; single door model has 4 sq. ft. of work top area and 12 cu. ft. of storage space. Both models are 24" deep and have hinged doors with under locks built into T-handles. Size center shelf is adjustable on centers. Finished in baked-on gray enamel. Easy to assemble. Edsal brand.



Single Door
\$61.51

Lots 3



Double Door
\$79.47

Lots 3

Unit Description	Dimensions			Top Surface Sq. Ft.	Storage Cu. Ft.	Mfr's. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	H	W	D								
Single Door	34"	24"	24"	4	12	59242	1W909	\$80.94	\$65.56	\$61.51	80
Double Door	34"	36"	24"	6	18	59243	1W703	104.87	84.70	79.47	110

MOBILE MAINTENANCE BENCH

Pressed-Wood Work Surface. 5" Diameter Rubber Casters

\$141.06

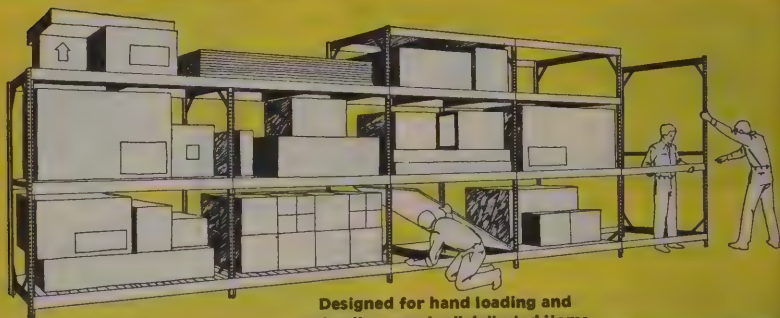
Lots 3

Unit provides the work surface of a bench, the storage area of a work cabinet and the mobility of a service cart. Rolls easily to the work area on 5" diameter rubber casters. Pressed-wood work surface is 42" W x 24" D. Closed section is 18 W x 20 D x 28" H with adjustable shelf and key-locked door. Open section is 24 W x 20 D x 28" H with adjustable shelf and 12 W x 18 D x 3" H steel drawer. Rugged, welded steel construction with gray enamel finish. Cabinet shipped assembled. Shpg. wt. 130 lbs. Edsal brand. (MB-2442.)

No. 1W827. Retail \$185.61. Each \$150.34; lots 3.....\$141.06



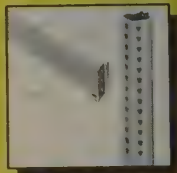
HEAVY-DUTY STEEL BULK STORAGE RACKS.....



Designed for hand loading and unloading evenly distributed items



EASY TO ASSEMBLE
 Bolt upright end frames together—slip lugs on end of cross beams into end frame slots. Takes minutes.



Engineered and designed for HAND loading and unloading of difficult, bulky items as well as small parts, tools, etc.—NOT recommended for use with pallets or power lifting equipment. Can be assembled quickly—without special tools or fasteners—to the height, length and overall system configuration best suited for the storage area. Can be stacked and extended against walls or assembled in open storage areas where access

sibility is desirable from both the front and rear.

Simplified bulk storage racks consist of two basic steel components—upright 16 ga. end frames and horizontal 16 ga. cross beams. Upright frames are assembled from standard components that bolt together easily to form rigidly braced framework. Cross beams have an electrically welded, 3-lug fitting at each end that fits into matching slots on the upright sections to form a strong, rigid rack assembly. Beams are furnished in pairs and connected with two tie bars to prevent movement under maximum loads. A pre-formed 5/8" recess or step accommodates standard plywood sheeting or ribbed steel deck panels (optional, see facing page). One pair of beams will support an evenly distributed load of 1650 to 2700 lbs., depending on beam length (5 ft. beams—2700 lbs., 6 ft. beams—1700 lbs., 8 ft. beams—1650 lbs.).

Can be quickly disassembled and moved to new location—or expanded by stacking vertically or extending horizontally. Shipped assembled. Gray baked-on enamel finish, Edsall brand.

BULK STORAGE RACKS—SELECTION GUIDE FOR OPPOSITE PAGE

A COMPLETE RACK—Includes standard components to form rigid "X" braced uprights, plus cross beams for three shelf levels. Steel decking not included.

B ADD-ON EXTENSION RACK—A quick, economical way of extending storage rack system to either side. Assembled unit attaches to upright section of basic rack (A above) and includes one "X" braced upright section plus cross beams for three shelf levels. Shelves can be positioned at any height—it is not necessary to match level of shelves on adjacent rack.

C EXTRA 16 GA. CROSS BEAMS—For adding more shelf levels than the three supplied with a complete rack or add-on extension rack. Cross beams are supplied in pairs with two tie bars

that adjust for 36 or 48" deep racks. Steel decking not included.

D RIBBED STEEL DECKING PANELS—One low cost, maintenance-free shelf for packaging storage. Made of 18 ga. steel with 4" wide channels formed 2" apart. Has tremendous strength and rigidity, requires no fasteners—deck simply fits into 5/8" recess of cross beam. Available: 6 or 8 ft. wide x 3 or 4 ft. deep. Packed one to a carton.

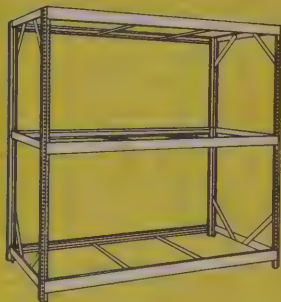
E WOOD DECKING SUPPORTS—Steel 16 ga. channels prevent center deflection of plywood or particle board decking. Support channels have pre-punched holes for attaching to matching holes in lower flange of cross beams. Supplied in boxes of 6.

CAN BE STACKED & EXTENDED TO FIT NEEDS

BULK STORAGE RACKS — DIMENSIONS & PRICES

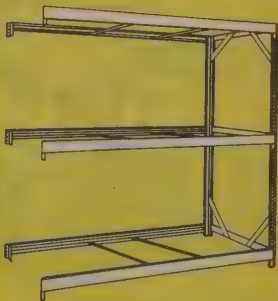
COMPLETE RACKS, LESS DECKING

Height	Width	Depth	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
6 FT.	5 Ft.	3 Ft.	7W091	\$110.50	\$77.37	\$73.48	133
	5	4	7W092	125.10	80.59	76.54	139
	6	3	7W093	118.69	83.10	78.94	139
	6	4	7W094	123.29	86.32	82.00	145
	8	3	7W095	134.62	94.23	89.53	160
	8	4	7W096	139.22	97.45	92.59	166
8 FT.	5	3	7W097	120.46	84.33	80.10	145
	5	4	7W098	125.12	87.59	83.20	149
	6	3	7W099	128.65	90.06	85.56	151
	6	4	7W100	133.31	93.32	88.66	155
	8	3	7W101	144.58	101.19	96.15	172
	8	4	7W102	149.24	104.45	99.25	176
10 FT.	5	3	7W103	133.56	93.51	88.82	155
	5	4	7W104	139.38	97.57	92.88	161
	6	3	7W105	141.75	99.21	94.28	161
	6	4	7W106	138.05	96.64	91.81	167
	8	3	7W128	157.68	110.37	104.37	182
	8	4	7W129	163.50	114.43	108.73	188



ADD-ON EXTENSION RACKS, LESS DECKING

Height	Width	Depth	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
6 FT.	5 Ft.	3 Ft.	7W107	\$85.52	\$59.88	\$56.87	101
	5	4	7W108	87.82	61.49	58.40	104
	6	3	7W109	93.71	65.61	62.33	107
	6	4	7W110	96.01	67.22	63.86	110
	8	3	7W111	109.64	76.74	72.92	128
	8	4	7W112	111.94	78.35	74.45	136
8 FT.	5	3	7W113	90.50	63.36	60.18	107
	5	4	7W114	92.83	64.99	61.73	109
	6	3	7W115	98.69	69.09	65.64	113
	6	4	7W116	101.02	70.72	67.19	115
	8	3	7W117	114.62	80.22	76.23	134
	8	4	7W118	116.95	81.85	77.78	136
10 FT.	5	3	7W119	97.05	67.75	64.54	112
	5	4	7W120	99.96	69.98	66.47	115
	6	3	7W121	105.24	73.68	70.00	118
	6	4	7W122	108.15	75.71	71.93	121
	8	3	7W123	121.17	84.81	80.59	139
	8	4	7W124	124.08	86.84	82.52	142



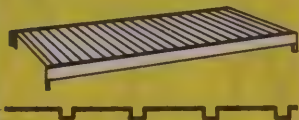
EXTRA CROSS BEAMS, For 36 or 48" Rack Depth

Length	Thickness	Depth	Stock No.	Retail	—PER PAIR— Each	Lots 3	Shpg. Wt.
Ft.	16 Ga.	36 & 48"	3W025	\$20.18	\$14.13	\$13.42	23
	16	36 & 48	3W026	22.91	16.04	15.24	25
	16	36 & 48	3W027	28.22	19.75	18.77	32



18 GA. RIBBED STEEL DECKING PANELS ONLY

Length	Depth	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Ft.	36"	1W965	\$27.61	\$19.35	\$18.36	35
	48	1W966	35.78	25.05	23.79	46
	36	1W967	32.74	22.92	21.77	42
	48	1W968	47.37	33.16	31.50	55
	36	1W969	46.95	32.87	31.22	55
	48	1W970	61.98	43.39	41.22	72



STEEL SUPPORTS FOR WOOD DECKING, 6 supports per box. Obtain wood decking locally—not included.

Length	Thickness	Stock No.	Retail	—Box 6 Channels— Each	Lots 3	Shpg. Wt.
"	16 ga.	2W055	\$13.01	\$ 9.11	\$ 8.65	14
	16	3W038	17.05	11.94	11.34	18





SLOTTED ANGLE STEEL POST KIT

Use to Make Steel Structures. Includes Four-12 Ft. Long Posts and 35 Bolts with Nuts Join Pieces Together with Bolts. No Holes to Drill

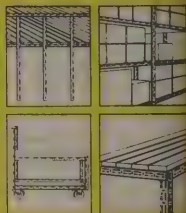
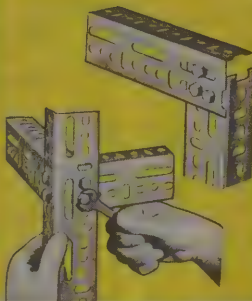
14-gauge cold rolled slotted angle posts, also called "metal lumber". Cut with a hacksaw or power metal-cutting saw. Posts have scientifically patterned slots so pieces can be bolted together at various angles without drilling holes. Use to assemble a variety of structures for shop or warehouse including benches, scaffolds, carts, racks, platforms or whatever structures may be needed. Support loads effectively on assembled angle posts alone or with plywood shelves or steel panels (not included). To assemble structure, determine pattern; then cut steel posts to required lengths and bolt pieces together. Carton contains 4 pieces 14-ga. steel slotted angle posts $2\frac{1}{4}" \times 1\frac{1}{2}" \times 12'$ long, and 35 cadmium plated $\frac{3}{16}" \times \frac{3}{4}"$ bolts with self-locking nuts. Galvanized finish. Shpg. wt. 43 lbs.

No. 3W095. Slotted Angle Steel Post Kit. Retail \$47.00. Each \$32.90; lots 3.....\$30.65

Kit
\$30.65

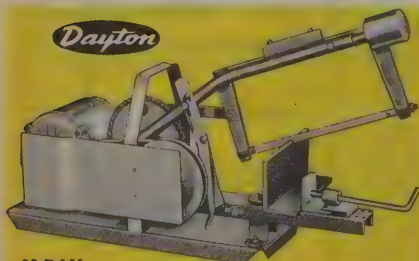
Lots 3

Kit Includes: • Posts
• Bolts
• Nuts



3 x 3" CAPACITY WORKSHOP HACKSAW

Cuts up to 3" OD Pipe. Shuts Off Automatically when Workpiece is Cut



90-DAY
LIMITED WARRANTY
See full Warranty Policy in Index

\$79.57

Less Motor
and Drive

Saws everything up to and including 3" steel pipe. Uses standard 10" hacksaw blade. Chain drive provides positive sawing action. Makes uniform, straight cuts—unattended. Shuts off automatically when piece is cut. Ball bearing and oilless sleeve bearings throughout. Requires 1/4 HP, 1725 RPM motor. Operates at approximately 120 cutting strokes a minute. Quick release slide action vise adjustable from 0 to $3\frac{1}{2}"$. Dimensions: $11\frac{1}{4}" \text{ W} \times 24" \text{ L} \times 12\frac{1}{2}" \text{ H}$. Dayton brand. Shpg. wt. 24 lbs.

10" HACKSAW LESS MOTOR AND DRIVE

No. 1Z725. Retail \$119.95. Each.....\$79.57

10" HACKSAW WITH MOTOR AND DRIVE

No. 1Z725 hacksaw with proper drive and 1/4 HP, 1725 RPM, 115V, 60 Hz split phase motor. Shpg. wt. 31 lbs.

No. 7Z050. Retail \$149.95. Each.....\$105.51

STEEL FOLDING SAWHORSE LEGS

Available in 24 and 30" Height. One Pair will Withstand Equally Distributed Loads up to 1000 Lbs.

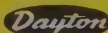
Using 36 x 2 x 4" Good Grade Lumber Crosspieces. Positive Locking Jaws Hold Crosspiece



No. 6X440

\$13.35

Per Set
Lots 3



16-gauge all steel folding sawhorse legs have locking jaws to hold standard 2 x 4" or similar thickness lumber crosspiece (not included). Sawhorses are suitable for supporting carpenters work, tops for temporary workbenches, sheet metal platforms, and display stands. Legs have positive locking braces, gray enamel finish. Sold in sets of four legs; one set makes two sawhorses. Dayton brand.

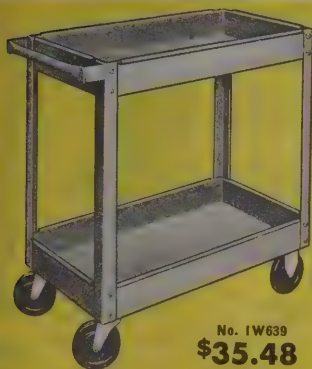
—Assembled—					
Leg	Base	Stock	Retail	Sawhorse Each	Set Lots 3
Height	Width	No.			
24"	17 $\frac{1}{4}"$	6X440	\$19.75	\$14.80	\$13.35
30"	21"	2W187	21.75	16.30	14.65

COMPLETE LINE OF STEEL SHELVING & SHOP EQUIPMENT AVAILABLE
THROUGH YOUR LOCAL GRAINGER SALES OFFICE/WAREHOUSE

Grainger carries in stock steel shelving, service carts, tool stands, work benches and other shop equipment most often asked for. In addition, we can supply your needs for any other item in our comprehensive line of material handling equipment—tell us your requirements.

HEAVY-DUTY 30 & 36" STEEL SERVICE CARTS

Two-Shelf Models. Third Shelf or Drawer also Available. 32" High with 3½" Deep Shelves



No. 1W639
\$35.48
Lots 3



Third Shelf
or Drawer
Available

Versatile, heavy-duty material handling carts for:

- Stockrooms
- Shipping, receiving and maintenance departments
- Assembly lines
- Stores, shops and banks
- Service garages

Large 3½" deep pan-type rolled-edge shelves are rated at 100 lbs. per shelf, provide ample loading space. Top shelf reverses to obtain a flat working surface. Distance between shelves is 20"—or 8" when optional third shelf is installed.

The 30" cart accommodates one 12 W x 20 L x 4" H optional drawer; the 36" cart, two drawers. Carts have four 5" diameter soft rubber casters. Front casters swivel for easy steering. Heavy-gauge steel construction with baked-on gray enamel finish. Shipped unassembled with hardware. Edsal brand.

Description	—Overall—			Casters		Mfr's.	Stock	Retail	Each	Lots 3	Shpg. Wt.
	W	L	H	Dia.	Wide	Model	No.				
30" Cart	16"	30"	32"	5"	1"	SC 2016	1W639	\$46.69	\$37.82	\$35.48	36
36" Cart	24"	36"	32"	5"	1"	SC 2024	1W683	55.20	44.71	41.95	43
Third Shelf for 30" Cart	16"	30"	—	—	—	—	1W847	8.53	6.91	6.48	9
Third Shelf for 36" Cart	24"	36"	—	—	—	—	1W848	12.97	10.52	9.87	15
Drawer	12"	20"	4"	—	—	WD 1218	1W682	9.47	7.69	7.21	8½

INDUSTRIAL 36 & 43" STEEL SHELF TRUCKS

Available in Open or Enclosed Models. 42" High with Three 2" Deep Shelves

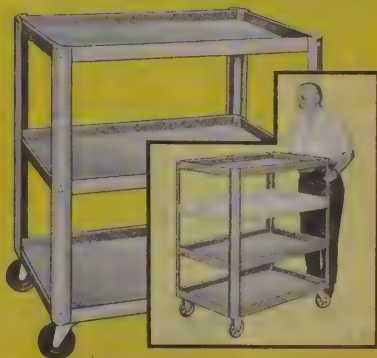
Sturdy, industrial-rated steel shelf trucks, available with open sides or three sides enclosed. Optional extra shelves can be installed to provide the material handling capacity that best meets the needs of:

- Stockrooms and tool cribs
- Shipping, receiving and maintenance departments
- Assembly line feeding systems
- Offices, stores and banks

Basic truck has 3 shelves rated 150 lbs. per shelf, each 2" deep, spaced 15" apart. With fourth shelf added, truck has 9½" clearance between shelves; with fifth shelf added, clearance is 6½". All shelves except bottom one can be reversed to provide a flat, rimless work surface.

Trucks roll on quiet, 5" diameter soft rubber casters, two rigid and two swivel. Finish is gray enamel, baked-on for years of protection. Easy to assemble; hardware included. Edsal brand.

No. 1W837
\$62.96
Lots 3



Description	—Overall—			Casters		Mfr's.	Stock	Retail	Each	Lots 3	Shpg. Wt.
	W	L	H	Dia.	Wide	Model	No.				
Open Truck	24"	36"	42"	5"	1"	OT 2436-3	1W837	\$82.84	\$67.10	\$62.96	50
Open Truck	20"	43"	42"	5"	1"	OT 2043-2	1W838	86.52	70.08	65.76	62
Encl. Truck	24"	36"	42"	5"	1"	—	7W041	104.54	84.68	79.45	91
Encl. Truck	20"	43"	42"	5"	1"	—	7W042	109.39	88.60	83.14	93
Third Shelf for 36" Truck	24"	36"	—	—	—	—	1W839	14.25	11.54	10.83	13
Third Shelf for 43" Truck	20"	43"	—	—	—	—	1W840	13.42	10.87	10.20	16

FREIGHT PREPAID on all shipments of 300 lbs. and over, unless otherwise stated.

See Sales Policy in Index for full details.

Shipment from nearest Grainger Sales Office/Warehouse, routing our choice.

SEE WARRANTY INFORMATION ON PAGE 684

SHOP & FACTORY MOBILE TOOL TOTERS

Provide Mobility & Security for Tools. Available in 3 Styles. 34½" H x 18" W x 24" D

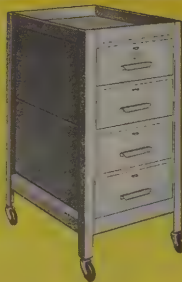
No. 7W066

\$51.37 Lots 3

All-steel Tool Toters bring the tools to the job site and provide security for tools when not in use. Drawers operate from fully enclosed case for maximum strength. Top serves as a tool tray; when reversed, as a flat working surface. Unit rides on 2½" casters. Drawers may be padlocked; cabinet has built-in cylinder lock. Gray enamel finish. Unassembled. Edsal brand.



**Two Drawer
No. 7W066**

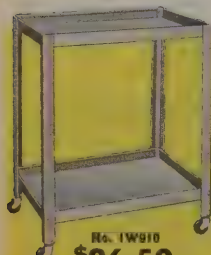


**Four Drawer
No. 7W067**

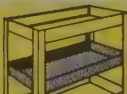


**Two Drawer/Cabinet
No. 7W068**

Unit Description	Overall Dim.			Drawer Dim.			Cabinet Dim.			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
H	W	D	H	W	D	H	W	D						
2-Drawer	34½"	18"	24"	4½"	15"	23"	—	—	—	7W066	\$67.60	\$54.75	\$51.37	54
4-Drawer	34½"	18"	24"	4½"	15"	23"	—	—	—	7W067	100.33	81.26	76.24	84
2-Drw'r./Cab.	34½"	18"	24"	4½"	15"	23"	14"	14"	24"	7W068	103.15	83.55	78.39	75



**No. 1W910
\$26.50** Lots 3



**Third Tray
and Drawer
Optional**



24, 28 & 36" TWO-TRAY TOOL STANDS

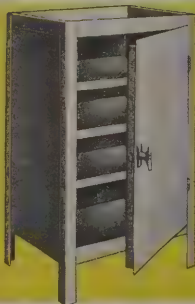
2½" Diameter Rubber Casters. 2" Deep Trays

Edsal mobile stands can be used to provide rigid mounting for small tools, add work space or accessory storage space near large machines, as parts and tool carriers for maintenance men and auto mechanics, mobile work centers in laboratories, assembly line feeders, etc.

Three sizes: 18" W x 24" L, 20" W x 28" L and 24" W x 36" L—each with two trays, spaced 25" apart vertically. Trays have 2" deep flange, rounded edges; may be installed inverted to provide rimless work surface. With optional third tray, clear opening between trays is 11½". 4" deep tool storage drawer may be added to all models. Gray, enamel finish. Shipped unassembled with building instructions and hardware

Description	W	Overall L	H	Tray Depth	Casters Dia.	Wide	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
24" Stand	18"	24"	35"	2"	2½"	¾"	1W910	\$34.87	\$28.24	\$26.50	24
28" Stand	20"	28"	35"	2"	2½"	¾"	1W843	40.88	33.11	31.07	28
36" Stand	24"	36"	35"	2"	2½"	¾"	1W844	56.85	46.05	43.21	36
Tray for 28" Stand	20"	28"	—	2"	—	—	1W845	10.39	8.42	7.90	8
Tray for 36" Stand	24"	36"	—	2"	—	—	1W839	14.25	11.54	10.83	13
Drawer	12"	20"	4"	—	—	—	1W682	9.49	7.69	7.21	8

Top can be mounted to form 2" deep tray shown here, or reversed to provide a smooth, rimless work table



TOOL CABINET STAND

2½ Sq. Ft. Work Top Surface or Tool Mount

\$40.28 Lots 3

Sturdy steel cabinet can be used as a mounting stand for drill press, grinder or other bench tool—or as an additional work surface. Top may be mounted either side. One side provides a 2" deep tray to prevent tools from sliding off; the other side, a smooth, rimless work table. Interior has 9 cubic feet of storage space and three adjustable shelves. Door handle equipped with a cylinder lock to provide security for tools, papers or merchandise. Cabinet measures 34" H x 21" W x 15½" D overall, and has a baked-on gray enamel finish. Shipped unassembled with hardware. Shipping wt. 50 lbs. Edsal brand. (630).

No. 1W814, Edsal Tool Stand Cabinet. Retail \$53.00. Each \$42.93; lots 3.....\$40.28

24 x 60" WORK BENCH

Has Lower Shelf & 12" Shelf-Riser & Ledge

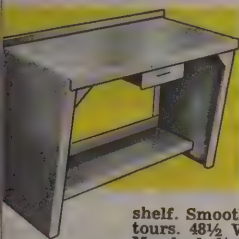


OPTIONAL DRAWER
No. 1W682. Each.....\$7.69

\$65.27 Wood top 24 x 60" work bench for all-purpose use in home, shop or factory. Top made of 1" thick compressed wood—holds over 200 lbs./sq. ft. Welded 16 ga. leg assembly and box-formed steel frame on all four sides gives top rigid support. Bench stands 34" high. Gray enamel finish. Shipped unassembled; easily assembled. Edsal brand. Shpg. wt. 88 lbs.
No. 1W061. Wood Top Work Bench. Retail \$85.87. Each \$69.56; lots 3.....\$65.27

HEAVY DUTY WORK BENCH

16 & 18 Ga. Industrial Steel. 8 Sq. Ft. Masonite Top



\$49.64

Lots 3

Big home, shop and factory markets for this all-steel workbench. Full 8 sq. ft. working area has Masonite top and backstop. Steel drawer and recessed lower

shelf. Smooth round, safe contours. 48 1/2" W x 33" H x 24" D. May be bolted to floor. Shipped unassembled. Gray finish. Edsal brand (HB4824). Shpping wt. 82 lbs.

No. 1W581. Heavy Duty Work Bench. Retail \$52.91; lots 3.....\$49.64

Spray Paint In 32 Industrial Colors

Fast-drying, durable Dem-Kote. See Index.



STEEL LEGS FOR WORKBENCHES

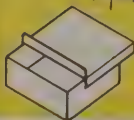
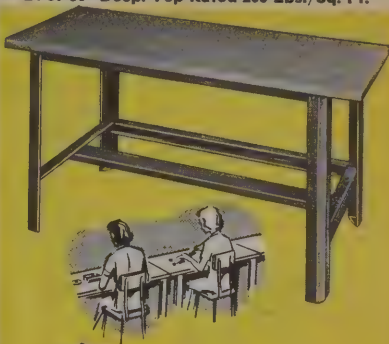
Use with Your Own Top, Shelf & Backstop. One Pair Supports Work Bench Top. 32" High

\$15.50 Build your own workbench for repair shop, garage, home, etc. Sturdy workshop-grade legs are made of heavy-duty 16-gauge channel formed steel. Top and lower cross pieces come with punched holes for attaching top and lower shelf (not included). Use locally obtained lumber, compressed wood, steel or plywood for top, lower shelf and backstop. Knock-outs on both sides of legs accept wiring for double heavy-duty electrical outlets. Footplates on each leg prevent cutting floor surface, allow legs to be bolted to floor. Assembled leg: 32 H x 28 D x 3" W. Sold in pairs. Pair of legs shipped disassembled. Gray enamel finish. Edsal brand (EL 2832). Shpg. wt. 27 lbs.

No. 2W177. Pair of Steel Bench Legs. Retail \$20.42. Per pair, \$16.52; lots 3 pairs.....\$15.50

WOOD-TOP WORK BENCHES

For Assembly, Packing Work. 48, 60 or 72" Wide
24 or 30" Deep. Top Rated 200 Lbs./Sq. Ft.



OPTIONAL DRAWER
See description below.
No. 1W682. Each.....\$7.69

\$27.91 Meets virtually every strength requirement for heavy or light manufacturing, service, maintenance and school shops, labs—wherever benches are used. Compressed wood top, 1" thick rated 200 lbs./sq. ft., is supported by box steel frame on all 4 sides. 16 ga. steel legs, welded for permanent rigidity. Cross-braced and self-supporting; can be arranged individually, side-by-side, or back to back. Benches stand 34" high. 1W810, 1W811, 1W888 are 24" deep. 1W890, 1W891 are 30" deep. Gray enamel finish. Shpgd. unassembled. Edsal brand.

Wide	Mfr's Model	Stock No.	Retail	Each	Lots 3	Wt.
48"	UB 400	1W810	\$36.73	\$29.75	\$27.91	55
60	UB 500	1W811	45.27	36.67	34.41	65
72	UB 600	1W888	55.27	44.77	42.01	82
60	UB 700	1W890	61.19	49.97	46.88	83
72	UB 800	1W891	68.72	55.66	52.23	95

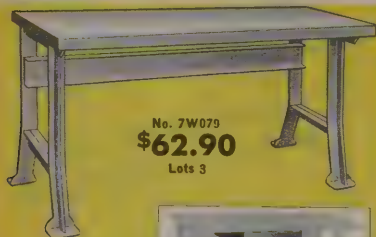
STEEL DRAWER FOR WORK BENCHES

Stores tools, spare parts and other items for convenience on the job. 12 W x 20 D x 4" H outside dimensions. Support panel easily attaches to underside of steel or wood top benches. Hardware included. Gray enamel finish. Edsal brand. Shpg. wt. 9 lbs.

No. 1W682. Edsal Steel Drawer. Retail \$9.49. Each \$7.69; lots 3.....\$7.21

INDUSTRIAL GRADE WOOD & STEEL TOP BENCHES

Available 60 & 72 W x 30 & 36 D x 34" H. Bench Top Rated at 250 or 300 Lbs./Sq. Ft.



No. 7W079
\$62.90

Lots 3

Lower Shelf or Drawer Available



Rugged, maintenance-free construction makes these benches ideally suited for factories, shops, garages, labs, etc. Available in a choice of two widths and two depths. 34" high bench is right height for worker standing or seated on stool in elevated position. T-section flared legs are 14 ga. steel with 1/2" punched base plates and gray enamel finish. Shipped unassembled with legs in separate carton. Edsal brand.

WOOD-TOP BENCHES — Laminated wood-on-wood construction: tempered top and bottom surfaces are laminated to compressed wood inner core. Top is 1 1/2" thick and rated at 300 lbs. per sq. ft. These benches provide maximum stability for use in labs, factories, shops, garages — wherever heavy items are regularly handled.

STEEL-TOP BENCHES — Top is 12 ga. steel, reinforced with 13 ga. steel channels—rated at 250 lbs. per sq. ft. Box formed on all four sides, has no sharp corners or edges. Attractive, baked-on gray enamel finish is phosphatized to resist rust and provide maximum durability in rugged, everyday use.

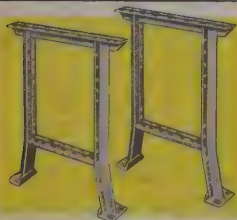
BENCH SIZE			WOOD-TOP BENCHES					STEEL-TOP BENCHES				
Width	Depth	Ht.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
60"	30"	34"	7W085	\$118.56	\$96.03	\$90.11	102	7W079	\$82.76	\$67.03	\$62.90	104
72	30	34	7W086	141.63	114.72	107.64	116	7W080	94.31	76.39	71.68	111
72	36	34	7W087	149.70	121.26	113.78	150	7W081	105.33	85.32	80.06	147

LOWER SHELF FOR ABOVE BENCHES
Adds extra rigidity, provides storage space.

Shelf W	D	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
60"	15"	1W914	\$19.70	\$15.96	\$14.97	22
72	15	1W915	22.83	18.49	17.35	27

STEEL DRAWER FOR ABOVE BENCHES

Inside dimensions are 18 W x 5 1/4 H x 23 3/4" D. Attaches easily to underside of steel or wood bench top. Two support brackets furnished. Full-length slide. 20 ga. steel, gray finish. Pad-lock hasp (lock not included). Shpg. wt. 22 lbs. No. 1W835. Each \$19.44; lots 3.....\$18.24



32 H x 30" D
\$20.95
Per Pair
Lots 3

INDUSTRIAL GRADE BENCH LEGS

Available 32" High, 30 & 36" Deep

32" H legs provide standing work height or work-stool height. All-welded steel construction. 14 ga. formed T-section uprights and 12 ga. top and lower cross members with pre-punched holes. Sold in pairs. Gray finish. Dayton brand.

Height	Top or Base Depth	Stock No.	Retail	Per Pair Each	Lots 3	Shpg. Wt.
32"	30"	1W849	\$27.56	\$22.32	\$20.95	33
32	36	1W850	29.81	24.15	22.66	36

STEEL FOLDING SAWHORSE LEGS

Available in 24 and 30" Height. One Pair will Withstand Equally Distributed Loads up to 1000 Lbs. Using 36 x 2 x 4" Good Grade Lumber Crosspieces. Positive Locking Jaws Hold Crosspiece



No. 6X440
\$13.35
Per Set
Lots 3

Dayton

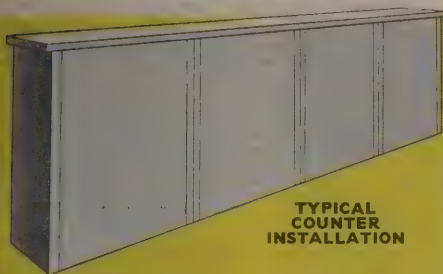
16-gauge all steel folding sawhorse legs have locking jaws to hold standard 2 x 4" or similar thickness lumber crosspiece (not included). Sawhorses are suitable for supporting carpenters work, tops for temporary workbenches, sheet metal platforms, and display stands. Legs have positive locking braces, gray enamel finish. Sold in sets of four legs; one set makes two sawhorses. Dayton brand.

Assembled—Leg Height	Base Width	Stock No.	Retail	Sawhorse Set Each	Lots 3	Shpg. Wt.
24"	17 1/4"	6X440	\$19.75	\$14.80	\$13.35	14
30	21	2W187	21.75	16.30	14.65	16

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

COMMERCIAL & INDUSTRIAL SERVICE COUNTERS

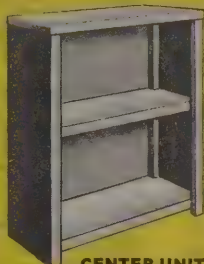
Modular Design for Single or Continuous Counter Installation



**TYPICAL
COUNTER
INSTALLATION**



END UNIT



CENTER UNIT

Steel service counters offer maximum organization of service areas in offices, factories and institutions, or as sales counters in hardware, supply houses, service stations and all firms requiring durable but attractive counters for customer areas. Counters stand 39" high, and have two 24" x 36", 18 ga. storage shelves—one lower (fixed) and one adjustable, 1" on center, held securely by shelf-clips to permit easy readjustment if required without disturbing adjoining units. Modular design (End and Center units) permit easy installation of additional counter space if required—eliminates costly alteration charges. Counter fronts and end panels made of exclusive 24 ga. embossed steel which offers outstanding appearance and maximum rigidity plus abrasion resistance. Top made of heavy 18 ga. steel, box formed and triple formed at corners for maximum strength plus elimination of sharp edges and corners. All surfaces phosphatised prior to final baked-on gray enamel finish—to prevent rust and provide resistance to abrasion. Shipped unassembled; assemblies quickly and easily. Edsal brand.

For a single counter requirement, order one "Center Unit." For multiple requirements, order 2 "End Units," and additional "Center Units" as required. End unit may be used as Right or Left End. Optional: extra shelf or full-closure door set with key lock built into T-shaped handle.

Unit Description	—Overall—			Top Dimen.		Mfr's. Model	Stock No.	Retail	Each	Lots 3 Asst'd.	Shpg. Wt.
	H	W	D	W	D						
d Unit	39"	36"	24"	37"	26"	250-24-S	1W886	\$88.34	\$71.56	\$67.14	80
nter Unit	39	36	24	36	26	250-24-I	1W887	87.16	70.60	66.24	73
uble Door Set	(For End or Center Unit)					261	1W880	53.04	39.78	37.13	36
ra Shelf	(For End or Center Unit)					35240	1W929	6.38	5.17	4.85	14

WORKSHOP TOOL & PARTS CABINET

Hangs on Wall or Sets on Workbench. Opens to 60 L x 24 H x 6" D. 24-Gauge Steel Construction

Steel cabinet stores and secures tools and service items out of the way—adds workspace to existing work bench. For hand and power tools, small parts, lubricants, spray cans, first-aid items, etc. Heavy 24-gauge welded steel construction. Double doors open 60 inches wide, close to compact 30 L x 24 H x 12" D outside dimensions. Magnetic catch holds doors closed. Hasp on door fits standard padlock (not included), safeguards tools and miscellaneous items from pilferage or unwanted users. For workshop, service area, garage, utility room, basement, office, anywhere storage and security are needed. One door has built-in tool rack and nail parts tray, other door has 3 built-in shelves. All steel pegboard back accepts standard pegboard hooks (included). Gray enamel finish. Edsal brand (WC-1). Shpg. wt. 27 lbs.
No. 2W178. Workshop Cabinet. Retail \$38.48. Each \$31.17; lots 3. **\$29.24**



Tools and supplies shown are not included in price of cabinet



Closes to Compact
30 L x 24 H x 12" D
Outside Dimensions

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.

INDUSTRIAL DUTY SHELF CABINETS

72 & 78" High Cabinets. 36" Wide x 18" Deep
All Steel Construction. Four Adjustable Shelves



Dayton

72" Height
\$57.35
Lots 3

78" Height
\$71.94
Lots 3

Dayton all steel constructed shelf cabinets are designed for accessible storage requirements in offices, schools, institutions, businesses and industrial storerooms. Cabinets come in 72 and 78" heights, provide ample storage space for office supplies, books, records, small parts, tools, office machines, etc. Units are free-standing, can be moved independently of other shelving units; offer wide choice in floor arrangement in side-by-side, back-to-back or any type custom installation. Both cabinets are 36" wide x 18" deep and come with 4 shelves. Shelves adjust on 2" increments, provide flexibility for storage needs. Gray enamel finish. Units are shipped unassembled, assemble easily with ordinary hand tools; all necessary hardware included. Dayton brand.

GENERAL SPECIFICATIONS AND PRICES

Height	Overall Dimensions W & D	Total No.	—Shelves— Adjust on (increments)	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
72"	36 x 18"	4	2"	3W082	\$86.25	\$60.37	\$57.35	89
78"	36 x 18"	4	2"	3W083	108.20	75.73	71.94	115

INDUSTRIAL DUTY CABINETS

Floor, Counter & Desk Height Units. Adjustable Shelves All-Steel Construction. 36 W x 18" D



Dayton

Floor Unit
\$70.59
Lots 3

Desk Height
\$44.34
Lots 3

Built for use in commercial applications as well as for industrial storage needs. Free-standing cabinets are a full 30, 42 or 72" high and provide convenient storage space for small parts, office supplies, records, etc. without taking much valuable floor space. All-steel cabinet and shelves are phosphatized before gray enamel baking for maximum durability. Shelves in all units adjust on 2" increments.

Units have two swing-out doors to secure stored materials—plus locking handles to discourage pilferage. Cabinets measure 36" wide x 18" deep. 42" high unit serves as a counter and cabinet combined. Easily assembled with ordinary tools. Dayton brand.

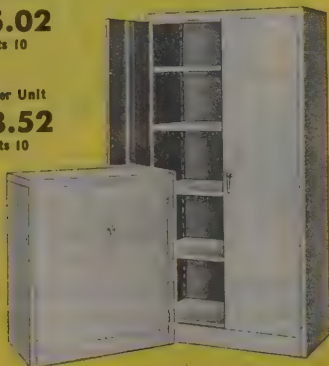
Type	High Shelves	No. Shelves	Stock No.	Each	Lots 3	Shpg. Wt.
Floor	72"	4	1W944	\$74.29	\$70.59	112
Counter	42"	2	1W978	55.83	53.05	70
Desk Ht.	30"	1	3W086	46.66	44.34	54

INDUSTRIAL DUTY CABINETS

All Steel Construction. Adjustable Shelves
Floor and Counter Height Models. 36 W x 18" D

Floor Unit
\$75.02
Lots 10

Counter Unit
\$58.52
Lots 10



Shelves Adjust on 2" Centers

Industrial-duty storage cabinets are engineered to withstand continuous, rugged use. Both models have double swinging steel doors that close to provide safe, cleaner storage of office supplies and equipment, valuable small parts, records, first-aid supplies, etc. Doors have pan-type construction with 3-point closure mechanism and built-in cylindrical lock to discourage pilferage. Units are free-standing, can be set side-by-side, back-to-back or in any arrangement desired. Counter unit can be used in free standing position, when wall space is limited. Can be utilized as counter and storage cabinet combined. Floor unit measures 72 H x 36 W x 18" D, comes with 4 adjustable shelves. Counter unit is 42 H x 36 W x 18" D, comes with 2 adjustable shelves. Shelves adjust on 2" centers. Cabinets are shipped unassembled; assemble quickly with ordinary hand tools. Gray enamel finish. Edsal brand (7000, 7001).

Type	High Shelves	No. Shelves	Stock No.	Each	Lots 10	Shpg. Wt.
Floor	72"	4	3W090	\$80.38	\$75.02	112
Counter	42"	2	2W182	62.70	58.52	70

INDUSTRIAL-DUTY STORAGE/WARDROBE CABINETS

Adjustable Shelves. Ventilating Louvers. All-Steel Construction. Dayton Brand



A SHELF UNIT



B SHELF/WARDROBE



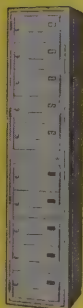
C WARDROBE UNIT

Dayton industrial-duty storage cabinets are fully suited for safe storage of materials and things, also for storage of fluorescent tubes, blueprints, bulky items, etc. All models have 22 gauge steel sides, back, top and bottom—with

22 gauge steel shelves and doors. All doors have partially concealed hinges, come with $\frac{3}{4}$ x $\frac{1}{2}$ " flat locking bar and chrome-plated locking handle (2 keys included). Gray enamel finish. Easily assembled with ordinary tools.

Description	Overall Dimensions			Total No.	Shelves		Adjust on (Increments)	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	H	W	D		Capacity, evenly distr.							
SHELF/STORAGE UNITS Available 18 and 24" deep x 78" h. All units have adjustable shelves.	78"	36"	18"	4	450 lbs.		$1\frac{1}{2}$ "	3W043	\$132.70	\$92.89	\$88.22	156
	78"	36"	24"	4	450		$1\frac{1}{2}$ "	3W044	151.00	105.70	100.39	177
SHELF/WARDROBE UNITS Have 4 adjust. 18 $\frac{1}{2}$ " W shelves, width stationary hat shelf, hanger rod. Partition 52 $\frac{1}{2}$ " H (unit), 60" H (78" model).	72"	36"	18"	5	450		1-11/24	3W047	112.60	78.83	74.86	120
	78"	36"	24"	5	450		$1\frac{1}{2}$ "	3W046	156.75	109.73	104.21	178
WARDROBE UNIT Adjustable full width top shelf and hanger rod.	78"	36"	24"	1	450		$1\frac{1}{2}$ "	3W045	140.25	98.18	93.24	155

COMMERCIAL STEEL LOCKERS



A Master Door Opens Entire Front of Locker

No. 3W097
\$154.28

Lots 3
10-Compartments

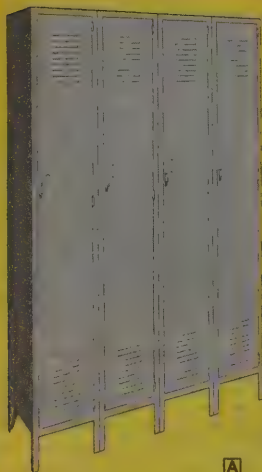
All steel lockers provide safe storage for customers, employees, or students' personal belongings. Each compartment door comes with its own built-in lock and removable keys. Entire front section, a master door, opens with a master key anytime inspection of contents of all lockers becomes necessary. Both models have 16-ga. steel door frames; 24-ga. steel top, shelves, bottom, side and rear walls. Doors in 10-compartment unit are 22-ga. steel; 20-ga. in 8-compartment unit. Lockers shipped unassembled; assemble easily with ordinary hand tools. Locks come installed in doors with two keys per lock. All locks keyed differently. Gray enamel finish. Change-O-Matic brand.

A 8-Door Unit—For hanging clothing, uniforms, other garments and personal items. Also may be used for safe storage of drafting equipment, blueprints, drawings and similar sized parcels.

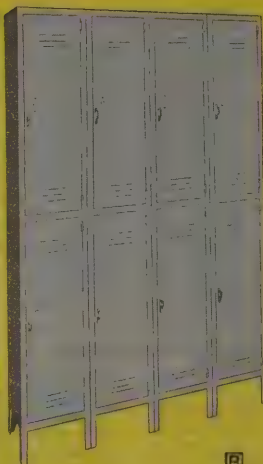
B 10-Door Unit—For storing books, gym clothing, small personal items including tools, instruments, etc. Suitable for installation in schools, hospitals, health clubs, business establishments.

No. Compartments	Outside Dimensions In Inches			Inside Compartment Height	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	W	D	H							
8	26"	21 $\frac{1}{2}$ "	84 $\frac{1}{2}$ "	42 $\frac{1}{2}$ "	14100	3W096	\$274.00	\$232.92	\$219.23	181
10	16 $\frac{1}{2}$ "	16"	77 $\frac{1}{2}$ "	7"	12100	3W097	192.70	163.80	154.28	104

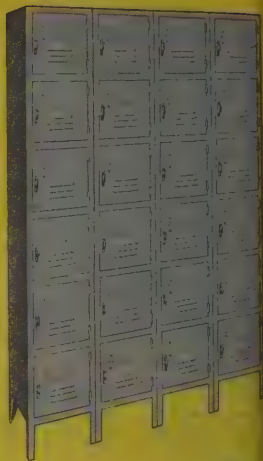
SEE WARRANTY INFORMATION ON PAGE 684


(A)

4-PERSON LOCKER SECTION
As Low As \$30.50 Per Locker
Opening. Sold in Full Sections Only


(B)

8-PERSON LOCKER SECTION
As Low As \$19.64 Per Locker
Opening. Sold in Full Sections Only


(C)

24-PERSON LOCKER SECTION
As Low As \$9.30 Per Locker
Opening. Sold in Full Sections Only

All-steel constructed lockers keep employee apparel, tools, lunch boxes, etc. safe and secure. End and back panels are 24 ga. steel with 16 ga. doors and rust-resistant galvanized steel bottoms. Full width ventilated doors strike at top and bottom and come with pre-latching lock rod and nickel-plated lift handles with built-in padlock clasp for maximum security. A lock hole cover plate is supplied with each door. No

5X909 keylock can be mounted using prepunched holes in door, order separately, or conventional padlock, not included, can be used to lock lift handle. Rubber door pads provide quiet latching. Plastic identification card holder for individual door fronts are included. Enamel finish. All units shipped unassembled; assemble with ordinary tools. 6 1/4" high legs. Instructions included. Dayton brand.

Description	Overall Dimensions			Number of Openings Per Section	Stock No.	PRICE PER FULL SECTION AS SHOWN ABOVE			Shpg. Wt.
	H	D	W			Retail	Each	Lots 3	
(A) 4-PERSON LOCKER SECTIONS									
66" H lockers have one shelf, 78" H lockers have 2 shelves. Both sizes have 3 plated wall hooks and a 2-pronged ceiling hook per opening.									
	66"	12"	12"	4	3W065	\$162.40	\$129.90	\$122.00	165
	78"	15"	12"	4	3W066	190.45	152.35	143.10	210
(B) 8-PERSON LOCKER SECTIONS									
Each opening has 3 plated wall hooks, 2-pronged ceiling hook.									
	78"	12"	12"	8	3W067	\$209.15	\$167.30	\$157.10	188
	78"	15"	12"	8	3W068	214.45	171.55	161.10	204
(C) 24-PERSON BOX LOCKER SECTION									
	78"	15"	12"	24	3W069	\$296.90	\$237.50	\$223.10	241

(D) LOCKER KEY LOCK

Fits pre-punched holes in all locker doors. Two keys. Locks come in random key settings.



Size	Stock No.	Retail	Each	Lots 24	Shpg. Wt.
1 1/4" Wide 2 1/2" High 3 1/2" Deep	5X909	\$2.82	\$2.25	\$2.12	5 os.

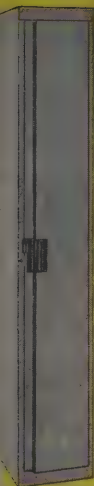


PHONE YOUR ORDERS FOR WILL-CALL SERVICE

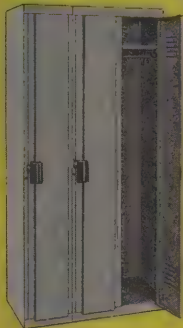
You save time and money when you phone Grainger's for the equipment or supplies you want to pick up. Our people can have your merchandise ready to go when your truck arrives.

INDUSTRIAL STEEL LOCKERS

Quiet Operating. Designed for Plants, Offices, Schools, Health Clubs, Hospitals and Other Institutions. Single and Double Tier Models. Starter and Add-On Units



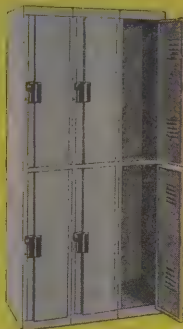
Single Tier
\$43.62
Starter Unit
Lots 3



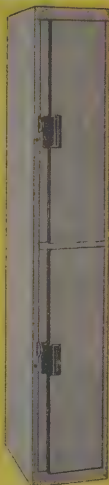
Add-on single tier units
shown bolted to starter unit

- Intermixable Single & Double Tier Models
- Quiet Operating
- All-Steel Construction
- Maintenance Free

Double Tier
\$46.32
Starter Unit
Lots 3



Add-on double tier units
shown bolted to starter unit



steel lockers operate quietly; are quite stable for installation where frequent use occurs in areas where quietness is desired. All models feature strong doors of double wall panel construction; inner door of 22-gauge steel, outer door of 20-gauge, electrically spot welded entire length for rigid support. Lockers can be converted from left to right side opening by simply reversing door frame. Three 14-gauge rugged hinges are recessed from face of door giving a smooth vertical panel appearance; hinges project past face of door. Louver ventilating system on inside door panel. Single tier units come with one shelf and hanging bar; double tier units have 2 hooks and hanging bars. Units are free standing, or may be installed in recess openings along corridors, locker rooms. Hasp on door accepts padlock (not included) or built-in cylinder lock (included—see below). Order cylinder lock separately. Lockers shipped disassembled; easily

assembled with ordinary hand tools. Overall dimensions 72 H x 12 W x 18" D. Grey enamel finish. Edsal brand.

Starter Locker Unit. Available in both single and double tier models. Unit includes door frame, door, top, bottom, back panel and one interchangeable side panel. Single tier model includes storage shelf. These units bolt to right or left side of starter locker unit. One starter locker and any number of add-on lockers are all that's necessary for complete installation. Single and double tier add-on and starter lockers are intermixable for most storage needs.

Add-On Locker Unit. Available in both single and double tier models. Unit includes door frame, door, top, bottom, back panel and one interchangeable side panel. Single tier model includes storage shelf. These units bolt to right or left side of starter locker unit. One starter locker and any number of add-on lockers are all that's necessary for complete installation. Single and double tier add-on and starter lockers are intermixable for most storage needs.

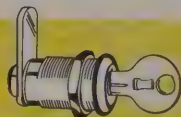
Description	Inside Dimensions			—Overall—			Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	H	W	D	H	W	D						
er Starter	70 3/4"	11 1/2"	17 1/2"	72"	12"	18"	SL8000	3W102	\$62.32	\$46.74	\$43.62	59
er Add-on	70 3/4"	11 1/2"	17 1/2"	72"	12"	18"	SL8001	3W103	55.43	41.57	38.80	50
er Starter	35 3/4"	11 1/2"	17 1/2"	72"	12"	18"	SL8002	3W104	66.17	49.63	46.32	62
er Add-on	35 3/4"	11 1/2"	17 1/2"	72"	12"	18"	SL8003	3W105	59.28	44.46	41.50	53

CYLINDER LOCK FOR ABOVE LOCKERS

built-in lock for Edsal lockers only. Lock fits in knock-out in locker door handle. 2 keys. Order one lock per locker door. Edsal brand. g. wt. 1/2 lb.

6X294. Cylinder Lock. Retail \$3.83. Each \$7; lots 3.....\$2.68

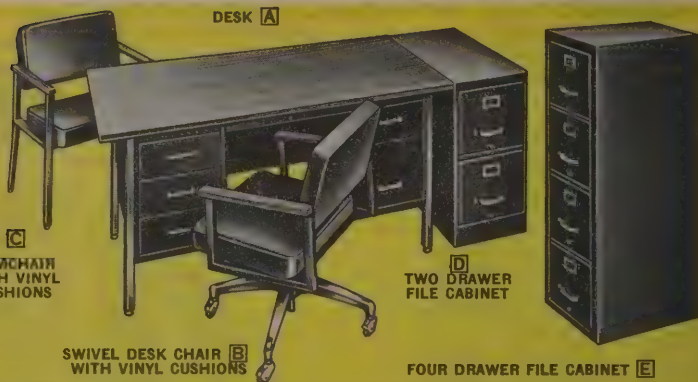
Cylinder Lock
Comes with
2 Keys



GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

STEEL OFFICE FURNITURE & FILING CABINETS



A OFFICE DESK, 30 x 60"—Has 1" thick composition top attractively finished in walnut-tone hard plastic laminate. Pedestals are 24 ga. steel with baked-on black enamel finish, and measure 14½" W x 25 D x 19¼" H each. Steel drawers have aluminum handles and move on nylon and steel bearings. Locking of center drawer locks all 5 pedestal drawers (incl. deep file drawer). Chrome-plated 1" sq. x 28" long tubular steel legs with leveling glides are shipped dismounted from desk. Assembled desk height 29¼". Modesty panel between pedestals. Wesco brand.

B CUSHIONED SWIVEL CHAIR—Attractive black vinyl-cushioned desk chair has walnut-tone hardwood arms; 1" square tubular steel arm supports and seat bracing finished in black enamel; and bright satin finish swivel base with 2 x ¾" swivel casters. Seat height is adjustable from 17 to 21". Torsion bar action, tilting seat and swivel casters add to working maneuver-

ability. Seat cushion is 3¼" T x 20 W x 18½" D. back cushion 2½" T x 20 W x 12¼" D. Wesco brand.

C CUSHIONED ARMCHAIR—Comfortable office chair matches desk and swivel chair—and is normally used in groupings of two or three chairs per office for visitors, salesmen, etc. Durable black vinyl cushions with walnut-tone hardwood arms and 1" sq. tubular steel legs finished in black enamel. Seating ht. 19½". Seat cushion 3½" T x 12¼" D x 20" W, back cushion 2¼" T x 12¼" D x 20" W. Wesco brand.

D & E FILE CABINETS—Letter-size files are sturdy 24 ga. steel and won't tip with loaded drawer open all the way. Drawer fronts of 22 ga. steel have aluminum pull handles and cam holders. Full suspension drawers move easily on steel bearings and rollers. Attractive baked-on black enamel finish. In 2-drawer (29¼" H) and 4-drawer (56½" H) styles. Wesco brand.

Key	Description	Overall Dimensions			Mfr's. Model	Stock No.	Retail	Each	Shpg. Wt.
		H	W	D					
A	Office Desk	29½"	60"	30"	93060	3W049	\$234.56	\$162.81	178
B	Swivel Chair	32"	27"	27"	145	3W050	126.69	88.53	36
C	Armchair	33½"	22"	23"	135W	3W051	83.12	58.05	26
D	2-Drw. Cabinet	29½"	15¼"	29"	424D	3W052	113.19	80.86	82
E	4-Drw. Cabinet	56½"	15¼"	29"	404	3W053	148.87	107.16	143

STEEL OFFICE CABINETS

Shelves Slide Out for Space Adjustment

All steel cabinets are built for efficient versatile storage in offices, schools and institutions; provide quick access to books, sales literature, price lists, etc. Cabinets are free-standing, can be moved without dismantling. 84" high unit has 7 shelves; 60" high unit has 5 shelves, both are 38" wide x 12" deep. Shelves are reinforced and slotted on 1" centers to accept bookstops, one per shelf included. Shelves slide out to adjust on 1½" increments, lock securely when slid back in. Cabinets constructed of 19 gauge steel, shelves are 20 gauge. Black enamel finish. Shipped unassembled, easily assembled with ordinary hand tools. Dayton brand.

Outside Dimensions—			No.	Stock	Each	Lots	Shpg.
H	W	D	Shelves	No.		3	Wt.
60"	38"	12"	5	3W084	\$79.28	\$75.31	111
84"	38"	12"	7	3W085	96.70	91.87	140

Extra Shelf for Above Cabinets. Increases storage capacity. One bookstop included with each shelf. Black enamel finish. Shpg. wt. 10 lbs.

No. 2W176. Retail \$7.39. Each \$5.17; lots 3, \$4.92

Dayton

60" High
No. 3W084

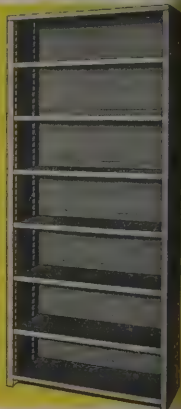
\$75.31

Lots 3

Shown: 84" High
No. 3W085



1 Bookstop per
Shelf Included



TELEPHONE ANSWERING AND RECORDING SYSTEM

Automatically Answers the Telephone and Records Incoming Messages. Remote Control Model
Plays Back Callers' Messages over User's Own Telephone

Telephone answering system **\$124.60**
Automatically answers the phone at end of second ring with any pre-recorded message. User chooses, records up to 120 incoming messages for later playback. Can operate unattended 24 hours a day. Two-cassette system records outgoing message on endless loop cassette (included); message may be changed easily by re-recording or changing cassette. Incoming messages are recorded on standard 30 minute magnetic tape cassette (included). One control switch selects Silent Monitor that lets user screen incoming calls and take calls personally; Mute Only feature that gives the pre-recorded message to caller then hangs up; Fast Forward Speed, Rapid Rewind and Rapid Erase functions. Message light signals when unit has incoming messages. Both models have dynamic microphone, meet all telephone company requirements, and plug into telephone company front jack without service charges. Both units operate on standard 115V AC. Black plastic with nut grain cabinet. UL and CSA listed.

2W225. Standard Automatic Phone Answering Unit. Has all features listed above.

2W226. Remote Control Phone Answering Unit. Deluxe model has all features listed above plus remote control capability allowing user to playback his messages over the telephone from anywhere in the world. No need to be at the phone to get messages. User simply calls his own phone number, presses a button on the pocket-sized Remote Control Key unit and listens to his answering unit plays back, over the telephone, all recorded messages. After hearing

- Records on Standard Tape Cassette
- Can Operate Unattended 24 Hours a Day



Shown: No. 2W226 Remote Control Model with Pocket-Sized Remote Key.

LIMITED WARRANTY

One Year Limited Warranty on parts, Excluding Cassettes and Accessories, 90 Days on Labor. See Limited Warranty Policy in Index

messages, user can reset tape to its beginning with the remote key giving the unit unlimited message capacity; or, when finished listening to the messages, remote key can signal unit to continue receiving calls without erasing messages. Model also features Voice Actuation capability that lets callers speak as long as they wish. After caller stops speaking, unit senses absence of voice and hangs up. No pre-set time limit terminates an incoming telephone message.

Model	—Dimensions—			Remote Control	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
	W	D	H						
Standard	11 1/8"	9"	3 1/8"	No	Auto 60	2W225	\$169.95	\$124.60	10
Remote Control	11 1/8"	9"	3 1/8"	Yes	Remote 80	2W226	299.95	236.10	10



\$58.80

While Stocks Last

LIMITED WARRANTY

90 days on parts and labor, 1 year on parts only. See Limited Warranty Policy in Index.

DELUXE ADDING MACHINE

Enters 10 Digits, Totals 11. Prints Two Colors

17-key keyboard. Performs addition and subtraction, has Repeat key for convenient multiplication. Clear key automatically clears errors, separate Non-add and Sub-total keys perform intermediate calculations. Prints two colors, uses 2 1/4" paper tape (included). All steel frame and mechanism, molded plastic case. 11 1/2" D x 8 1/2" W x 4 1/4" H. 115V AC, 6 1/2 ft. 3-conductor cord included. Color: black and white. Unitrex brand (E210). Shpg. wt. 9 lbs.

No. 2W180. Unitrex Adding Machine. Retail \$99.00. Was \$66.60 Each; While Stocks Last **\$58.80**

POCKET TAPE RECORDER FOR BUSINESS, HOME

Comes With Standard and NiCad Batteries, AC Cord

Multiple uses—dictation, recording estimate information on site, inventory counts, stock counts for re-ordering, and for business uses, as well as recording of voice or music for personal entertainment. Advanced integrated circuitry, error-controlled motor for reliable, stable performance, remarkably clear sound. Automatic recording level control. Built-in condenser type microphone. Pushbutton start-stop control on unit, plus remote control cord for use when subscribing. Battery voltage/record level meter. Operates on 1.5V AA cells, rechargeable nickel cadmium battery pack or 7, 60 Hz adapter, all included. Carrying strap, earphone black cassette also furnished; uses standard blank cassette tapes available locally. Black case, silver trim 4 1/8" W, 1 1/2" D. Sharp brand (RD-428U). Shpg. wt. 3 lbs.

5H408. Pocket Tape Recorder. Retail \$89.95. Was \$64.00; While Stocks Last **\$60.26**

\$60.26

While Stocks Last

90-Day Limited Parts & Labor Warranty; additional 8-month limited warranty on parts only. See Limited Warranty Policy in Index.



TEXAS INSTRUMENTS ELECTRONIC CALCULATORS

HAND-HELD MEMORY & PORTABLE PRINTING MODELS

Solve Basic Mathematical Problems Instantly at Home, Business or School

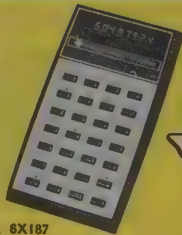


A

No. 6X186

\$26.90

Slimline Memory

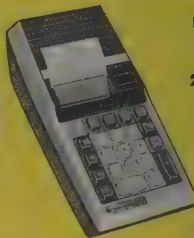


B

No. 6X187

\$31.45

Deluxe Memory



C

No. 6X236

\$116.90

Portable Printer

Prints Entries
and
Calculations
on
2" Paper Tape

A POCKET SIZE SLIMLINE MEMORY CALCULATOR, No. 6X186—Streamlined 8 digit electronic calculator fits pocket or purse. Unit has four function capability. Performs addition, subtraction, multiplication, division with automatic constant in addition, subtraction, multiplication and division functions. Also calculates mixed and chain operations, repeat addition and subtraction, and credit balance entries. Percent key instantly calculates percentages for discounts, mark-ups, taxes, and other percent problems. Keyboard has 10 digit keys, 13 function keys, and decimal key. On-Off switch. Calculator operates 3-5 hours continuous operation on fully charged nickel-cadmium batteries, included, or indefinitely on 115V AC with AC Adapter/Charger unit, also included. Display shows full floating decimal, minus sign for negative entries and an overflow indicator for entry and calculation overflow. Protective vinyl carrying case and instruction booklet included. Color: black with silver trim.

B DELUXE MEMORY CALCULATOR, No. 6X187—Compact 8 digit electronic calculator features eight function capability with full function memory system and automatic constant for repetitive addition, subtraction, multiplication and division. Unit performs addition, subtraction, multiplication, division and automatic percent calculations. Full function memory system lets user add-to, and subtract from memory, recall and clear numbers stored in memory. Keyboard has 10 digit keys, 17 control and function keys, decimal key and On-Off switch. A Change Sign (+/-) key helps solve complex problems. Unit operates 3 to 6 continuous hours on fully charged rechargeable nickel-

cadmium batteries, included. Unit also can operate on 115 volt AC household current indefinitely with AC adapter/charger unit, included. Bright display is clearly visible for both hand held and desk top operation. Unit displays decimal point, negative sign, calculation overflow memory in use, and memory overflow indicator. Percent key converts keyboard entry into percentage, when used with "x" key, can calculate any percentage of displayed number. Carrying case and instruction booklet included. Color: Dark gray with light gray keyboard.

C PORTABLE PRINTING CALCULATOR, No. 6X236—Small printing calculator fits easily in a briefcase, operates up to 5 hours on fully charged rechargeable batteries (included), or indefinitely on 115V AC (AC Adapter/Charger included). Unit adds, subtracts, multiplies, divides, has percent key, performs chain calculations, multiplies and divides by a constant number, has automatic dollars-and-cents decimal positioning (add mode) or choice of full floating decimal for mixed calculations. Independent add register simplifies invoicing. New add feature lets user print reference data such as invoice numbers, order numbers, dates, etc. without entering these numbers into calculations. Calculator also features a full function Memory System, paper advance key that feeds extra paper for easy tear-off, large size printout with standard audit-trial symbols, overflow indicators and high-level buffering that lets user make multiple entries while calculator is printing. Prints up to 9 digits on 2" wide thermal paper tape (included). Unit is brown with beige keyboard. Owners manual and vinyl protective carrying case included.

CALCULATOR OPERATING FEATURES COMPARISON TABLE

Fig.	Stock No.	Model Description	Add, Sub., Multiply, Divide	Floating Decimal	Fixed Decimal	Chain and Constant	Clear Entry	Memory	Clear Memory	Reverse	X ¹ , 1/X	%
A	6X186	Slimline	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes
B	6X187	Deluxe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
C	6X236	Printer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes

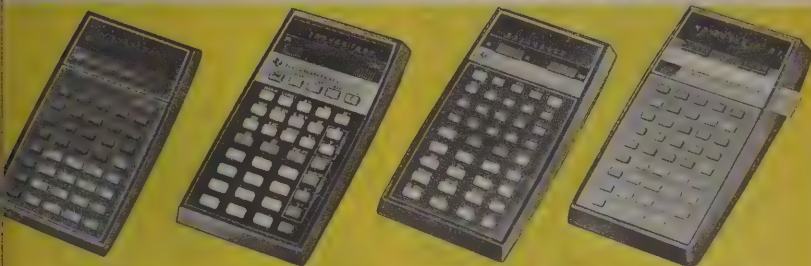
SHIPPED PREPAID FROM CHICAGO DISTRIBUTION CENTER
SEE SALES POLICY IN INDEX FOR FULL DETAILS ON FREIGHT PREPAYMENT
ORDER FROM NEAREST GRAINGER ADDRESS FOR FASTEST SERVICE

CALCULATOR DIMENSIONS AND PRICES

Fig.	Model Description	No. of Digits	—Dimensions—			Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
A	Slimline Memory	8	2½"	4¾"	1½"	TI1650	6X186	\$29.95	\$26.90	3
B	Deluxe Memory	8	3	5½"	1½"	TI2550III	6X187	34.95	31.45	3
C	Portable Printer	10	4½"	8¾"	2	TI5050M	6X236	129.95	116.90	3

TEXAS INSTRUMENTS ELECTRONIC CALCULATORS

SLIDE RULE, SCIENTIFIC AND PROGRAMMABLE MODELS



A No. 6X205 **\$35.90** **B** No. 6X223 **\$71.90** **C** No. 6X548 **\$98.90** **D** No. 6X453 **\$265.50**

SCIENTIFIC MEMORY SLIDE RULE CALCULATOR, No. 6X205. Performs simple arithmetic, reciprocals, squares, square roots, change of base, mixed calculations, automatic conversion of scientific notation plus higher level scientific functions including exponentials, trigonometric and logarithmic functions with full floating decimal or in scientific notation. Unit features Degree/Radian/Grad angle conversion, automatic clearing and electronic memory. Keyboard has 40 digit/function keys. Accuracy is to significant digits, display rounded to 8 digits. Operates up to 6 hours on fully charged battery, indefinitely on 115V AC. Electronic On and Off. Carry pack, AC adapter/charger, carrying case and instructions booklet included.

FULL FUNCTION MEMORY SCIENTIFIC CALCULATOR, No. 6X223. Unit performs functions of "x", constant calculations, percentages, arithmetic functions, trigonometric functions, logarithmic functions, linear regression, statistical functions and 20 automatic conversions plus x^2 inverses; also, mean variance, standard deviation, permutations, and random numbers. Memory functions allow storing, recall, summation and multiplications independent arithmetic keys. Results may be displayed in full floating decimal or fixed decimal set from zero to eight places. Scientific notation available with either decimal option. Keyboard has 40 keys, Degree/Radian switch. Accuracy to 13 digits, display rounded to 10 digits. Operates up to 6 hours on fully charged nickel-cadmium battery, indefinitely on 115V AC. Battery pack, AC adapter/charger, carrying case and instructions included.

PERSONAL PROGRAMMABLE CALCULATORS, Nos. 6X548, 6X453. Offer new dimension

in practical and theoretical problem solving. These have mathematical resources similar to capabilities of computers. Problem solving techniques such as optimization, projections, forecasting, data reduction, risk analysis, probability and mathematical modeling are possible. The sophisticated ability of these units lets the user program the calculator on how to perform based upon inputs and intermediate results, calculations, to make logical decisions in detail, and how to handle several sub set problems and combine these to solve the overall problem. Both models feature Algebraic Operating System entry; user keys problem as he would say it. Units operate on 115V or rechargeable batteries (incl.). Units also can be used with No. 2W224 printing adapter listed on next page.

No. 6X548. Key programmable unit contains functions found in FORTRAN. Has 10 addressable memories with full register arithmetic plus 74 pre-programmable functions and operations. Features include 8-register stack and 9 levels of parentheses which handle up to 7 pending operations; 100-step program memory, 6 logical decision functions, 4 levels of subroutines and 2 loop control instructions.

No. 6X453. Card programmable calculator lets user program unit with reusable magnetic cards (included). Cards may be changed, adapted to solve specific problems, or stored for later use. Unit has 11 register stacks and 9 levels of parentheses allowing up to 10 pending operations. Features include 224 step program memory, 20 memory registers, 10 user defined keys, 72 labels, 2 modes of indirect addressing and 105 pre-programmed functions and operations. Comes with pre-recorded program cards and complete instructions.

All Models Perform Addition, Subtraction, Multiplication and Division; Operate on Battery and 115V AC

Model Description	No. Memories	$\frac{1}{x}$, x^2 , \pm/\mp , \sqrt{x} , EE	Inx, Log, y^x , STO, RCL, Σ	Const. $X \cdot \sqrt{y}$, Sin, Cos, Tan, %	ex, X1, Var, Mean, Sum, 10 \times , Hyp, Intcp., Slope	Trig, Deg. Min. Sec. Polar, Rect. Convers.
Scientific Slide Rule	1	Yes	Yes	Yes	No	No
Full-function Scientific	3	Yes	Yes	Yes	Yes	No
Key Programmable	10	Yes	Yes	Yes	Yes	Yes
Card Programmable	20	Yes	Yes	Yes	Yes	Yes

SHIPPED PREPAID FROM CHICAGO DISTRIBUTION CENTER

SEE SALES POLICY IN INDEX FOR FULL DETAILS ON FREIGHT PREPAYMENT ORDER FROM NEAREST GRAINGER ADDRESS FOR FASTEST SERVICE

Model Description	No. Characters	—Dimensions— W L H	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Scientific Slide Rule	8	3 1/4" 5 1/2" 1 1/4"	SR40	6X205	\$39.95	\$35.90	3
Full-function Scientific	14	3 1/4" 6 1/4" 1 1/4"	SR51A	6X223	79.95	71.90	3
Key Programmable	14	3 1/4" 6 1/4" 1 1/4"	SR56	6X548	109.95	98.90	3
Card Programmable	14	3 1/4" 6 1/4" 1 1/4"	SR52	6X453	295.00	265.50	3

SEE WARRANTY INFORMATION ON PAGE 684

DESK TOP ELECTRONIC PRINTING ADAPTER

Prints Entire Programs, Entries, and Calculations from Texas Instruments
Hand-Held Programmable Calculators

Programmable calculator adapter prints programs and intermediate calculations from Texas Instruments models SR-52 (Stk. No. 6X453) or SR-56 (Stk. No. 6X548) calculators. Not included—order separately). Unit is capable of printing entire sophisticated programs step-by-step, any segment of a program and can be stopped and resume printing from any point in a program. Lets user check keyed-in instructions; match tape against coding sequence, edit and debug programs, verify that results are based on correctly formulated programs and develop experimental programs.

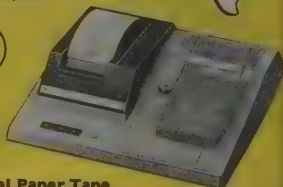
Printer and calculator couple by pressure connection. Lock calculator in place, unit is ready to print. Noiseless operation prints 3 lines per second using 5 x 7 dot matrix. Prints 10 significant digits, exponents, decimal points, symbols and signs on 2" wide thermal paper tape (included). Built-in key lock for security of stored information. Operates on 105-130 VAC. Beige plastic case. 10½ L x 10¼ W x 4" H. Shpg. wt. 8 lbs. Texas Instruments brand (PC-100).

No. 2W224. Printer Adapter. Retail \$295.00.
Each\$265.50

No. 2W224

\$265.50

Printer Adapter



**Prints
on 2"
Thermal Paper Tape**

Shipped Prepaid from Chicago Distribution Center. See Sales Policy in Index for full details on freight prepayment. Order from nearest Grainger address for fastest service.

DESK TOP ELECTRONIC MEMORY CALCULATOR

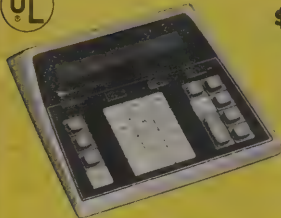
Compact Unit has 10 Digit Capacity for Routine Office Calculations. 115VAC



No. 6X454

\$62.96

Memory Unit



Shipped Prepaid from Chicago Distribution Center. See Sales Policy in Index for full details on freight prepayment. Order from nearest Grainger address for fastest service.

Calculator performs addition, subtraction, multiplication, division, chain and mixed calculations, constant factor multiplication and division, gives credit balance and performs automatic percentage calculations for figuring markups and discounts. Memory feature allows entry and recall of intermediate calculation for later use. 10 digit display shows all numerals, decimal point, negative sign, entry overflow indications, calculation overflow indicator, commas for thousands in all decimal positions and memory indication. Full floating decimal entry with floating or fixed point answers. Easy operation, enter numbers and functions in standard business machine sequence. Keyboard has 10 digit keys, 12 function keys, decimal point switch, chain/constant switch and On-Off switch. Operates on 115VAC. Comes with 6 ft. 2-conductor cord set, dust cover and instructions. Beige color. 6¼ W x 8¼ L x 2¾" D. Shpg. wt. 4 lbs. Texas Instruments brand. (TI 5100).

No. 6X454. Desk Top Memory Calculator. Retail \$69.95. Each\$62.96

DESK TOP PRINTING/DISPLAY CALCULATOR

Provides Addition, Subtraction, Multiplication, and Division Entries and Calculations in Display Window and on Printed Tape. Four Function Memory System



No. 2W223

\$134.90

Print/Display
Calculator



Shipped Prepaid from Chicago Distribution Center. See Sales Policy in Index for full details on freight prepayment. Order from nearest Grainger address for fastest service.

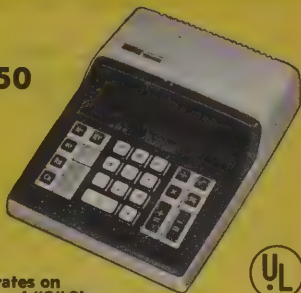
Prints up to 10 digits plus decimal and trail symbols on 2" wide thermal paper tape (included) while same figures appear in display window. Selectable print mode lets calculator print single lines, show figures in display and on tape, or show figures in display only. Printing feature may be switched off to save paper tape if user does not require a record of his calculations. Four function memory lets user add to subtract from, recall or clear memory without affecting calculations in process. Features include choice of 2-place fixed or floating decimal point, non-add and percent keys and automatic constant for repetitive multiplication and division. 115VAC. Comes with 6 ft. 3-conductor cord set. White and black plastic case; 9½ W x 9¼ x 3" H. Shpg. wt. 3¾ lbs. Texas Instruments brand (TI-5040).

No. 2W223. Print/Display Calculator. Retail \$149.95. Each\$134.90

DESK TOP MEMORY ELECTRONIC CALCULATOR

Compact desk calculator performs addition, subtraction, multiplication, division, chain and fixed calculations, and automatic percent functions that simplify add-ons and discounts. Quiet operating unit features 4 key memory system allowing user to store numbers in memory and add to or subtract from these numbers. Calculator also performs constant factor addition, subtraction, multiplication and division. Full 12 digit display. Decimal switch sets point at full or up to 6 places, and at add mode that automatically enters dollar and cents figures without touching decimal key. Keyboard has 10 digit keys, % key, 4 memory keys, clear entry key, clear key, exchange key that reverses figures on display for inverse calculations, square root key, truncating switch, and on-off switch. Lamp indicators light when calculations over-run, credit balance occurs, and when memory being used. Unit operates on 115V AC, or up to 14 hours on 4 "C" size disposable or rechargeable batteries (not included). 6 ft., 2-conductor cord set and instructions included. UL listed. W x 9 1/2" L x 2 1/2" D. Brown and beige plastic case. Unitrex of America brand (1204MR). Shpg. 4 lbs.

\$52.50



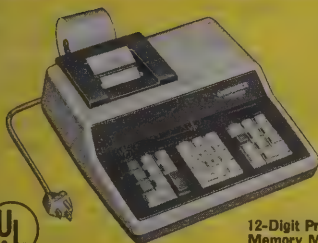
**Operates on
115V AC or 4 "C" Size
Batteries**

Shipped Prepaid from Chicago Distribution Center. See Sales Policy in Index for full details on freight prepayment. Order from nearest Grainger address for fastest service.

No. 6X281. Desk Top Memory Electronic Calculator. Retail \$59.95. Each.....**\$52.50**

DESK TOP ELECTRONIC PRINTING CALCULATORS

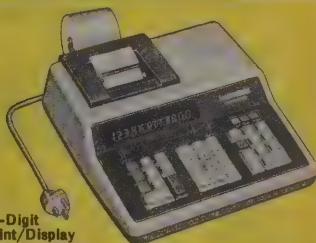
Three Memory Models. Print in Two Colors on Standard 2 1/4" Paper Tape



**12-Digit Print
Memory Model**

**10-Digit
Memory Model
\$92.10**

**90-DAY
LIMITED
WARRANTY
See Limited
Warranty
Policy in
Index**



**12-Digit
Print/Display
Memory Model**

UL MODELS perform routine addition, subtraction, multiplication, division, chain and fixed calculations, reciprocals, squaring, and raising numbers to a power. Automatic constant, automatic percentage feature, with add-on and discount capability. True addressable memory system with direct access selectively stores and accumulates entries in separate register. High-speed buffered keyboard calculates fast multiple entries while unit is still printing. Units have Add-Mode switch to set decimal at dollars and cents position automatically. Non-dial key allows reference numbers to print on tape without entering into calculations. Item number indicates number of entries put into addition or subtraction mode. Other keys include sign change, clear, clear entry, 5/4 switch selects rounded off or truncated results. Two or ribbon prints negative sub-totals and credit balance in red. Seiko® impact printing ad. 115V AC. Comes with 6 ft. 3-conductor cord. UL listed. 11 1/4" W x 9 1/2" L x 3 1/2" H. Grey or. Unitrex of America brand.

No. 2W189 10-Digit Memory Printing Model. Full 10-digit capacity for entries and answers up to 99,999,999.99. Selectable decimal switch sets point at fixed positions from 0 to 4 places or Add-Mode. Four-key direct access memory. Separate zero and double zero keys.

No. 2W173 12-Digit Memory Printing Model. Enters and prints up to 12 digits, 9,999,999,999.99. Decimal point can be fixed at 0 to 7 places, 2 or 3-place position in Add-Mode and full float. Six-key memory system. Automatic square root separate key. Exchange key for proration calculations.

No. 2W190 12-Digit Memory Printing/Display Model. Results can be calculated in print, or on large digitron display, or in both modes simultaneously. Unit has 12 digit capacity with selectable decimal point. Point may be fixed between 0-7 places, 2 and 3 places in Add-Mode, or in full float. Six-key memory system. Separate zero and triple zero keys. Exchange key for proration calculations.

**SHIPPED PREPAID FROM CHICAGO DISTRIBUTION CENTER
SEE SALES POLICY IN INDEX FOR FULL DETAILS ON FREIGHT PREPAYMENT
ORDER FROM NEAREST GRAINGER ADDRESS FOR FASTEST SERVICE**

Model	Memory	Mfr. Model	Stock No.	Retail	Each	Wt.
0-Digit Print	4-Key	10PPM	2W189	\$117.25	\$92.10	12
2-Digit Print	6-Key	12PPMR	2W173	129.65	103.70	12
2-Digit Print/Display	6-Key	14PPMD	2W190	147.50	124.40	12

SEE WARRANTY INFORMATION ON PAGE 684

ALL PURPOSE STEEL FURNITURE FO

EASY-TO-STORE CHAIRS FOR OFFICE OR SCHOOL



No. 1W985
\$7.60
Lots 4

A



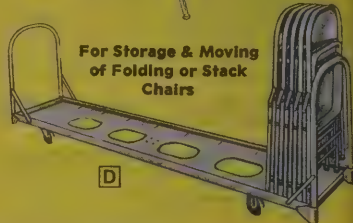
B



C

krueger

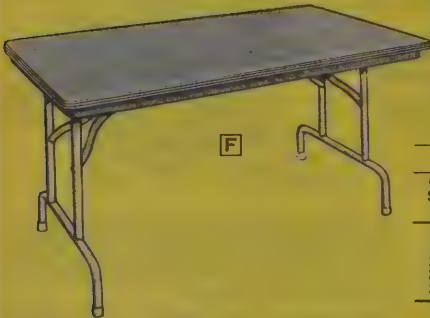
Grainger stocks office furniture and type-writers, cabinets, calculators, PA systems, intercoms, drinking water coolers, coffee brewers, Microwave ovens, and many other appliances and equipment for office and commercial establishments. Refer to Index for specific listings.



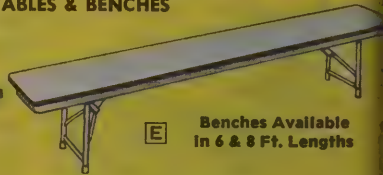
For Storage & Moving
of Folding or Stack
Chairs

D

STEEL FOLDING-LEG TABLES & BENCHES



F



E

Benches Available
in 6 & 8 Ft. Lengths

NUMBER OF CHAIRS PER TABLE

CHAIR STOCK NO.	TABLE STOCK NUMBER			
	30 x 72" 5W029	30 x 96" 3W030	36 x 72" 3W072	36 x 96" 3W073
1W985	8	10	8	10
1W986	8	10	8	10
2W158	8	10	8	10
3W033	6	8	6	8
3W034	6	8	6	8

INDUSTRIAL STOOLS FOR TABLES & WORKBENCHES



G



H



I



J

COMMERCIAL & INSTITUTIONAL APPLICATIONS

FOLDING & STACK CHAIRS

STEEL FOLDING CHAIRS—All steel constructed chair for offices, plants and institutions where extra seating is needed. Curved seat is available either formed or padded, provides firm, comfortable support. Tubular steel legs have three cross braces for stability. Chair size set up 30½" H x 18½" W x 19½" D. Folds 38¾" H x 14½" W x 3½" D. May be stored in quantity on 3W076 Chair Truck listed below. Chairs have beige enamel finish. Non-marring rubber feet. Padded chairs have brown vinyl upholstery. Sold in multiples of 4 only. Krueger brand 1, 903, 904).

Type	Seat—High	Stock No.	Price Each			Wt.
			Retail	Lots 4	Lots 8	
Unpadded	17"	1W985	\$9.50	\$7.60	\$7.13	13
Padded	17½"	1W986	13.60	10.88	10.20	14
Padded*	17½"	2W158	16.70	13.36	12.53	14

Also has padded backrest.

STEEL FOLDING CHAIR WITH TABLET

1M—All steel constructed chair has one-piece padded steel seat and curved backrest and a 12 x 12" maple grain plastic laminated tablet arm. Tablet arm provides sturdy surface for writing, drawing out forms, classroom work, etc. Arm folds independently away from chair when not in use. Chair size set up is 30½" H x 24" W x 26¼" D. Sold in multiples of two only. Krueger brand 1FTAP). Shpg. wt. 19 lbs.

2W174, Folding Chair With Arm. Retail \$27.00. Each, lots 2 \$26.96; lots 4.....\$25.28

CONTOURED STACK CHAIRS—Molded polypropylene chairs are suitable for meeting rooms, cafeterias, offices etc. Stack out of way when not in use. Solid reinforced molded shell assures hard use. Chrome tubular steel legs have self-leveling glide feet. Chairs easily wipe clean with a damp towel. Overall size 31½" H x 18" W x 23" D. Seat height 18". Sold in multiples of two only. Krueger brand (1000).

Color	Stock No.	Retail	Price Each		Shpg. Wt.
			Lots 2	Lots 6	
Harvest Yellow	3W033	\$21.90	\$17.52	\$16.43	15
Black	3W034	21.90	17.52	16.43	15

MOBILE CHAIR TRUCK—Holds 50 folding 60 stack chairs. Flat bed design of one-piece, heavy gauge steel with slides channeled to 1½" height. Welded angle steel supports and end-mount sockets. Removable end-posts are 1½" OD tubular steel. Has two swivel and two fixed casters, plus fifth wheel in center under bed. "L, 20½" W, 35" H. Beige enamel finish. Shipped unassembled. Krueger brand (KV-50). Shpg. wt. 69 lbs.

3W076, Mobile Chair Truck. Retail \$92.50. Shpg. wt. \$78.63

STEEL FOLDING-LEG BENCHES

STEEL FOLDING-LEG BENCHES—Benches are 6' and 8' long, 17" H x 15" W. Tops are ¾" thick solid core high density brown stainhard hardboard. Gravity lock legs are double braced welded tubular steel. Non-marring plastic feet. Beige enamel finish. Sold in multiples of two only. Krueger brand.

Lgth.	Mfrs. Model	Stock No.	—Price Each—			Shpg. Wt.
			Retail	Lots 2	Lots 4	
6'	BNM6	3W080	\$47.60	\$38.04	\$35.70	46
8	BNM8	3W081	51.80	41.44	\$38.85	60

STEEL FOLDING-LEG TABLES

F STEEL FOLDING-LEG TABLES WITH HARDBOARD OR PLASTIC FORMICA TOP—Sturdy all-purpose folding leg tables for a wide variety of commercial, industrial and institutional uses including displays, banquets, packaging and other light duty functions. Tops are 1" thick cellular core construction with brown stainhard hardboard surface that resists moisture penetration; Nos. 3W110 and 3W111 have walnut Melamine plastic formica type finish with black vinyl edge. Frame has pedestal type 18 gauge tubular legs that are held open by positive-lock hinges for firm support. Brown vinyl bullnose edges are decorative and absorb bumps. Tables are 29" high set up, 2½" high folded. Beige enamel finish. Krueger brand.

HARDBOARD TABLE TOPS

Fig.	Top Size	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
F	30 x 72"	NM6	3W029	\$51.50	\$41.20	\$38.63	60
F	30 x 96	NM8	3W030	59.00	47.20	44.25	72
F	36 x 72	WM6	3W072	59.30	47.44	44.48	65
F	36 x 96	WM8	3W073	68.80	55.04	51.60	83

PLASTIC LAMINATE TABLE TOPS

F 30 x 72	NP6	3W110	64.10	53.00	49.73	52
F 30 x 96	NP8	3W111	74.30	61.75	57.92	62

INDUSTRIAL STOOLS

G STANDARD ROUND STEEL BENCH STOOL—Heavy gauge tubular steel constructed stool stands 24" high on fixed legs. Round steel rimmed seat is 14" diameter with ¾" thick tempered hardboard recessed panel. Capped non-slip plastic feet. Metallic grey enamel finish. Sold in multiples of 2 only, and are shipped assembled. Krueger brand (624). Shpg. wt. 9 lbs.
No. 2W159, Round Steel Bench Stool. Retail \$14.00. Each, lots 2 \$10.57; lots 4.....\$9.77

H ROUND STEEL BENCH STOOL WITH BACKREST—Stool has ¾" thick tempered hardboard seat panel and curved steel backrest. Adjustable tubular steel legs raise height of seat from 24 to 33". Backrest adjusts 2" horizontally, 2" vertically. Seat diameter is 14". Metallic grey enamel finish. Krueger brand (624BA) Shpg. wt. 15 lbs.

No. 1W712, Round Bench Stool With Backrest. Retail \$24.90. Each \$19.92; lots 4.....\$18.68

I SQUARE STEEL BENCH STOOL—Formed steel seat is 14½ x 15½" with ¾" thick tempered hardboard seat panel. Stool has adjustable tubular steel legs that raise seat height from 18 to 27". Backrest adjusts 2" vertically, 2" horizontally. Self-leveling cushioned steel leg glides. Metallic grey enamel finish. Krueger brand (724 BA). Shpg. wt. 20 lbs.

No. 1W711, Square Steel Bench Stool. Retail \$27.10. Each \$21.68; lots 4.....\$20.33

J STEEL ROUND SEAT STOOL SWIVELS 360°—Vinyl upholstered polyfoam padded seat and backrest rotate 360° on tubular steel constructed legs. Seat is 14" diameter, adjusts 24 to 26" high. Backrest adjusts 2" vertically, 2" horizontally. Self-leveling nylon feet have stainless steel caps. Heavy gauge tubular steel construction. Metallic grey enamel finish. Shipped assembled except for backrest. Krueger brand (824 SB). Shpg. wt. 23 lbs.

No. 2W175, Round Swivel Stool. Retail \$45.00. Each \$36.00; lots 4.....\$33.75

Quick, Friendly Service—Lowest Prices

COMMERCIAL/RESIDENTIAL MICROWAVE OVENS

MICROWAVE COOKING BENEFITS

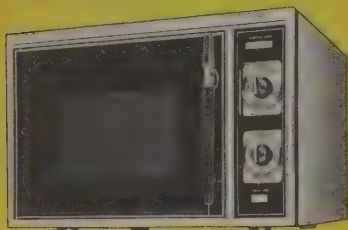
FAST. Cuts preparation to fraction of conventional time. Ideal for residential use or food service applications. Food is quickly cooked so nutrients and natural juices are kept in.

SAFE TO USE. Deluxe oven equipped w/double safety switch & separate interlock switch which shuts oven off whenever door is opened. Complies with UL, FCC & HEW standards.

CLEAN. Stainless steel walls come clean with a cloth. No dirty pots & pans—cook on china, glass, pottery instead.

COOL COOKING. Everything stays cool but the food. Cookware never gets hot—use china, glass, pottery, even paper plates. (Paper can't be used with Infrared Browner on 3H245. Metal may only be used for TV dinners or browning purposes, according to instructions.)

FLASH DEFROST. Microwave ovens defrost foods much faster than room temperature or conventional ovens. A Microwave oven defrosts an 18 lb. turkey in 60 minutes. It takes 1 day at room temperature.



No. 3H245 Deluxe Microwave Oven
With Infrared Browning

\$398.80



DELUXE MICROWAVE OVEN, ULTRA-FAST INFRARED BROILER/BROWNER ELEMENT

Elegantly-styled addition to any kitchen, make foods acquire rich, browned surface in minutes 0.8 cu. ft. capacity. Simple to operate: press main On-Off switch, place food in oven, close door, set Microwave & Browner timers (if recipe calls for both) & press cook button. Oven automatically switches from Microwave to Browne and bell signals as each cooking cycle is completed. Separate Microwave & Browner indicator lights tell which is in use. 0-25 min. 2-speed Microwave timer, 0-25 min. 1-speed Browning timer. Cavity lamp lights when main On-Off switch is pushed. Glass-bottom cooking shelf included, has 3 adjustable heights. 620 Watt Microwave output power; 1400 Watt Browning output power. 120V, 60 Hz; 3-prong, grounded plug. Complies w/UL, FCC & HEW standards UL listed. Outside dimensions: 23½" W x 16½" D. Cavity dimensions: 13½" W x 8" H. 14½" D. Sharp brand (R6800). Wt. 138 lbs.

No. 3H245. Retail \$499.00. Each **\$398.80**

MICROWAVE/CONVENTIONAL OVEN COMPARISON CHART

FOOD TYPE	Microwave Oven Cooking Times			Conventional Oven Cooking Times		
	Defrost	Cook	Total	Defrost	Cook	Total
13½ lb. Rib Roast	—	1½ hrs.*	—	—	3½ hrs.**	—
7½ lb. Leg of Lamb	—	35 min.*	—	—	3½ hrs.**	—
Frozen 18 lb. Turkey	1 hr.*	2½ hrs.*	3½ hrs.	1 day†	6 hrs.**	1½ days
Frozen 3 lb. Chicken	9 min.*	25 min.*	34 min.	4½ hrs.†	1 hr.**	5½ hrs.
Frozen Vegetable (10 oz.)	4 min.*	(Included)	4 min.	—	15 min.**	15 min.
Baked Potato	—	4 min.*	—	—	45 min.**	—
Frozen Dinners	8 min.*	(Included)	8 min.	—	½ hr.**	—

(*) Begins instantly after starting microwave oven. (†) Approximate defrost time at room temperature.

(**) Time estimated after conventional oven is pre-heated to proper cooking temperature.

Caution: Microwave ovens can affect the operation of certain types of unshielded pacemakers. A pacemaker wearer should check with his physician before using a microwave oven.

RECEPTACLES and SWITCHES

Economically priced and designed for light duty applications such as lights, appliances, etc. Brown or ivory phenolic receptacles with back and side wire feature. Compact, single pole (SP) switches are ideal for shallow partitions. 15 amp, 120 volt, not HP rated. UL listed. Pass & Seymour brand.



Device	Body Color	Mfrs. Model	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
Receptacle	Brown	5240	6X064	\$0.84	\$0.66	\$0.60	2 oz.
Receptacle	Ivory	5240I	6X279	.87	.68	.62	2 oz.
SP Switch	Brown	1451	6X063	.92	.72	.65	2 oz.
SP Switch	Ivory	1451I	6X280	.94	.72	.65	2 oz.

USE GRAINGER'S SUPPLY SERVICE—GET FAST TURNOVER WITH LESS INVENTORY

AROUSEL MICROWAVE OVENS WITH REVOLVING TRAY

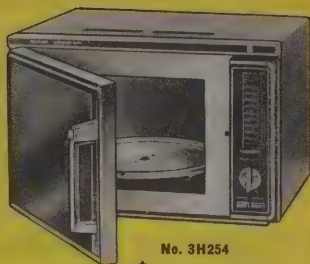
EXCLUSIVE GLASS CAROUSEL TURNTABLE automatically revolves during cooking cycle to assure thorough, even cooking. Tray is removable for fast, easy cleaning.

AUTOMATIC DEFROST CYCLE provides quick defrosting of frozen foods.

STAINLESS STEEL OVEN CAVITY is soil resistant, wipes clean with a damp cloth.

OTHER FEATURES INCLUDE 25 minute timer, see-through black tinted glass oven door and oven lamp, which remains lit while cooking.

COMPLIES WITH UL, FCC AND HEW standards. UL listed.



No. 3H254

\$384.48

CAROUSEL MICROWAVE OVEN WITH ROTARY RECIPE TIMER

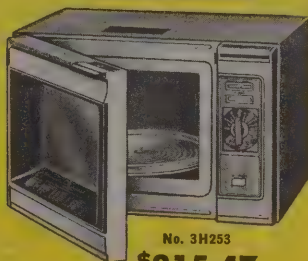
In addition to the automatic revolving turntable, this microwave oven features a rotary recipe timer which at a turn of a dial provides precise timing for defrosting or cooking. 700 watt microwave output power. 120V, 60 Hz. 3 prong ground-plug. Outside dimensions: 24" W x 16½" H x 18" D. Cavity dimensions: 15½" W x 9½" H x 12" D. Carousel tray is 14½" dia. Woodgrain cyclad metal cabinet. Sharp brand (R7600). Wt. 95 lbs. Shpg. wt. 108 lbs.

3H254. Retail \$479.95. Each.....\$384.48

CAROUSEL MICROWAVE OVEN WITH SIMPLIFIED COOKING GUIDE

A easy-to-follow printed cooking guide makes microwave timing more precise for defrosting and cooking a variety of foods. 600 watt microwave output power. 120V, 60 Hz. 3 prong ground-plug. Outside dimensions: 21½" W x 14½" H x 18" D. Cavity dimensions: 13½" W x 8½" H x 12" D. Carousel tray is 12½" dia. Woodgrain cyclad metal cabinet. Sharp brand (R6460). Wt. 73 lbs. Shpg. wt. 84 lbs.

3H253. Retail \$389.95. Each.....\$315.47



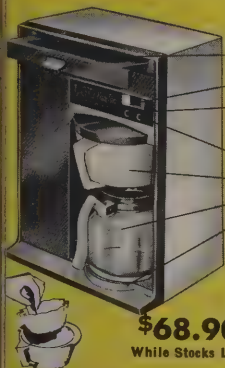
No. 3H253

\$315.47

Caution: Microwave ovens can affect the operation of certain types of unshielded pacemakers. A pacemaker wearer should check with his physician before using a microwave oven.

CORY COMMERCIAL AUTOMATIC COFFEE BREWER

"Ready-Brew" Makes Coffee to Meet Continuing Requirements. For Restaurants, Cafeterias, Offices, Residential Use



- Water Fill Drawer
- On-Off Switch
- Signal Light (tells when warmer is on)
- Ready Light
- Cartridge
- Serving Decanter
- Warming Plate

\$68.90

While Stocks Last

Insert paper filter, add fresh ground coffee. Put cartridge in new position.

Pour cold water in. Coffee brews immediately. Afterwards, just dump filter and grounds.

Simple, fast and convenient way to brew fresh, full-flavored drip coffee. Attractively-styled unit complements any setting. Ideal for restaurants, cafeterias, offices, shops or residential use where taste and convenience is a must. Brews coffee by the pot to meet requirements—excellent where continuing coffee availability is desirable. Brews, by the drip method, 3 to 8 cups in just four minutes, or 120 cups per hour. Coffee never gets stale or bitter-tasting. Needs no water lines or costly installation. Features 96-oz. stainless steel holding tank, heavy-duty thermostat. Operating tank temperature is 195° to 200°F; brewing temperature is 190°F. Has pushbutton on-off switch for 55 watt warming plate. Ready light signals when unit is ready for another brew. Rugged heavy-duty cyclad housing. Incl. are 48-oz. heat resistant glass serving decanter, plastic measuring pitcher and 50 filter papers. Measures 11½" W x 15½" H x 8½" D. 120V, 60 Hz, 1620 watts. Micro brand by Cory (NRB-1A). Shpg. wt. 14 lbs.

No. 5H417. Retail \$120.00. Was \$77.60. Each, While Stocks Last.....\$68.90

No. 5H418. Package of 1000 Filter papers (FP-1000). Shpg. wt. 7 lbs. Retail \$14.50. Was \$9.90. Each, While Stocks Last.....\$7.71

CHROMALOX RANGE ELEMENTS FOR REPLACEMENT

6 & 8" Diameter Surface Units Replace Over 90% of Range Elements Currently in Use



A CHROMALOX
MICROTUBE



B G.E.
HOTPOINT



C FRIGIDAIRE
TK MONOTUBE



D MICROTUBE
ADAPT-O-MATIC
SINGLE COIL

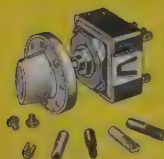
\$9.55

No. 2E267

Chromalox "Look-Alike, Cook-Alike" electric range surface elements are designed to replace practically all original equipment units in use today. Elements are similar in appearance and cooking performance to the original equipment elements specified above. To order, determine element type to be replaced and refer to table below which specifies stock no. for element, size, voltage, and wattage.

Elements (A), (B), & (C) are furnished complete with drip-pans and chromed stainless steel adaptor rings. Adapt-O-Matic element (D) replaces Chromalox original equipment plug-in, screw-type, push-on, or leadwire-connected single coil units. Each element is designed for easy installation and cleaning. U.L. listed. All elements can be used with Infinite Range Control, No. 2E036, listed below. Elements are packed in reshippable cartons.

Fig.	Element Size	Watts 240V	Watts 208V	Fits Range Top Opening	Chromalox Model	Stock No.	Retail	Each	Shpg. Wt.
A	6"	1500	1125	6 1/2 to 7 1/2"	MC45-R6R	2E034	\$18.54	\$11.13	2
	8	2100	—	8 1/2 to 9 1/2"	MC80-R9R	2E035	22.06	13.22	2
	8	2600	1950	8 1/2 to 9 1/2"	MC85-R9R	2E106	22.99	13.80	3
B	6	1500	1125	6 1/2 to 7"	MC45-GH6	2E281	18.28	10.94	2
	8	2600	1950	8 1/2 to 8 3/4"	MC85-GH9	2E282	22.47	13.48	2 1/2
C	6	1500	1125	6 1/2 to 7 1/2"	TK-6RH	2E279	27.85	16.73	2
	8	2100	—	8 1/2 to 9 1/2"	TK-8RH	2E280	33.40	19.97	2 1/2
D	6	1500	1125	6 1/2 to 7 1/2"	MP15U-R6R	2E267	18.44	9.55	2
	8	2600	1950	8 1/2 to 9 1/2"	MP26U-R9R	2E268	22.56	13.52	2



INFINITE RANGE CONTROL, WITH KNOB

Includes Switch, Knob and Knob-to-Shaft Adapters. Chromalox

\$5.56

240V

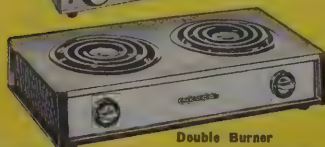
Universal replacement for surface mounted, 3, 5, 7, and infinite rotary heat controls. Can be used on 95% of electric ranges in use today and is effective from 5% to 100% of heat range. Can also be used for hot plates, surface units, etc. Includes attractive knob and dial shaft with break-off scores for trimming to proper length. Four different knob-to-shaft adapters are also supplied to permit use of original knob if desired. Easily-installed kit is designed for screw or bushing mounting—all mounting hardware furnished. Only 1 1/4" sq. Not for ranges using miniature switches. Chromalox brand.

Volts	Amps	Watts	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
240	15	3500	UC-240K	2E036	\$9.30	\$5.56	8 oz.
120	15	1750	UC-120K	2E087	9.72	5.82	12 oz.



\$15.53

Single Burner
No. 5H320



Double Burner



PORTABLE TABLE RANGES

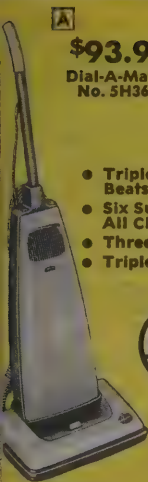
Single Burner Range—Robertshaw® infinite heat control regulates heat from Lo to High (1100 watts). 5 1/2" dia. element. Chrome body. "ON" indicator light. 115V 60 Hz. 40" long 3-conductor cord set. UL listed. 10 L x 8 1/2 D x 4 1/4" H. Capitol Products (UL255T). Wt. 6 lbs.

No. 5H320. Retail \$27.95. Each **\$15.53**

Double Burner Range—Left burner adjusts from Lo to Med. heat (550 watts), right burner Lo to High (1100 watts). Stainless steel top and front. Two 5 1/2" dia. burner elements. 115V 60 Hz. 6-ft. long 2-conductor cord set. UL listed. 18 1/4 L x 10 1/4 D x 4" H. Nesco brand (N125). Shpg. wt. 9 1/2 lbs.

No. 5H321. Retail \$41.50. Each **\$29.50**

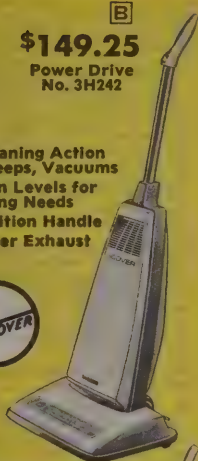
UPRIGHT VACUUM CLEANERS & ACCESSORIES



A

\$93.94
Dial-A-Matic
No. 5H362

- Triple Cleaning Action
Beats, Sweeps, Vacuums
- Six Suction Levels for
All Cleaning Needs
- Three-Position Handle
- Triple Filter Exhaust



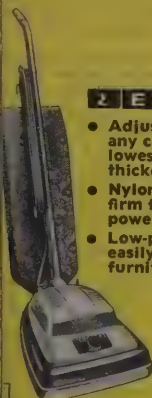
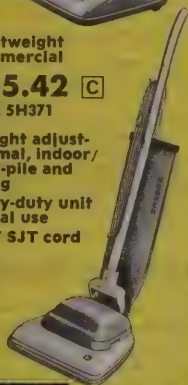
B

\$149.25
Power Drive
No. 3H242



Lightweight
Commercial
\$85.42
No. 5H371

- 4-position height adjust-
ment for normal, indoor/
outdoor, high-pile and
shag carpeting
- Rugged, heavy-duty unit
for commercial use
- Extra-long 29' SJT cord

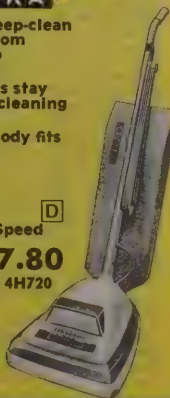


2 EUREKA

- Adjusts to deep-clean
any carpet from
lowest nap to
thickest shag
- Nylon bristles stay
firm for full cleaning
power
- Low-profile body fits
easily under
furniture

D

2-Speed
\$87.80
No. 4H720



1-Speed
\$54.24
No. 5H020

DELUXE HOOVER VACUUM CLEANERS

Hoover Dial-A-Matic vacuums (A & B) have adjustable power dial with three suction levels for carpets and three for use with tools. Height settings for shag, normal and indoor/outdoor carpeting. 5½ qt. disposable bag completely enclosed in body. One bag incl., extra bags listed below. Triple filter exhaust keeps dirt from getting back into air. 3-position handle, On-Off switch. Wraparound vinyl furniture guard, full bag indicator light. UL listed. 115V, 60 Hz.

A Dial-A-Matic Upright, No. 5H362. Aluminum main casting, ABS thermoplastic bag housing. Green and taupe finish. 44½" H.

B Deluxe Power Drive Upright, No. 3H242. Power drive moves vacuum forward and back with slight pressure on "Action-Grip." Wide angle headlamp. Floating nozzle adjusts automatically to carpet pile height from low indoor/outdoor to deep shag. Cast main housing. ABS thermoplastic bag housing. Finished in shades of taupe. 44" H.

Fig.	Mfr. No.	Stock No.	Retail	Each	Wt.
A	U5015	5H362	\$124.95	\$93.94	21
B	U6041	3H242	189.95	149.25	28

ATTACHMENT KIT FOR Nos. 5H362, 3H242

For Hoover Dial-A-Matic vacuums above. 6-pc. set includes vinyl hose, telescoping extension wand, floor brush, upholstery nozzle, dusting brush, crevice tool. Vinyl storage bag, strap to hold hose. Hoover brand (U5901). Wt. 3½ lbs.

No. 5H363. Retail \$24.95. Each.....**\$17.10**

DISPOSABLE BAGS FOR ABOVE VACUUMS

Package of 9. Hoover brand. Shpg. wt. 6 oz.

No. 5H364. (17943). Retail \$3.50. Each Pkg.....**\$1.74**

C Lightweight Commercial, No. 5H371. Provides the dependability of a Hoover in a rugged heavy-duty unit for offices, hotels, motels, stores, hospitals, etc. Features triple cleaning action: beats as it sweeps as it cleans. 4-position height adjustment. Reinforced cloth dust bag eliminates replacing bags, removes easily for emptying. Vinyl furniture guard. Die-cast aluminum base, molded thermo-plastic hood. Black & gray body, handle; black bag. 120V, 60 Hz. UL listed. Hoover brand (U7021). Wt. 20 lbs.

No. 5H371. Retail \$104.95. Each.....**\$85.42**

EUREKA VACUUM CLEANERS

Eureka upright vacuums (D & E) have power-driven brush with triple-cleaning action to beat, sweep and vacuum carpet deep down. Disposable dust bag keeps air intake clear for full suction. Steel housing and 3-position handle, wrap-around vinyl bumper. Permanently lubricated ball bearing motors. 45" high; 20' cord set. 120V, 60 Hz. UL listed.

D Eureka 2-Speed, No. 4H720. Built-in light, 2-speed, 3.5 amp motor. Vinyl dust bag cover.

E Eureka 1-Speed, No. 5H020. On-Off toe switch, 1-speed 3.35 amp motor. Vinyl dust bag cover.

Fig.	Speeds	Mfr. No.	Stock No.	Less Attachments Retail	Shpg. Each	Wt.
D	2	2375	4H720	\$134.95	\$87.80	17
E	1	1414	5H020	69.95	54.24	18

ATTACHMENT KIT FOR No. 4H720, 5H020

Includes dusting brush, upholstery tool, crevice tool, extension wand, long-life vinyl hose and base adaptor. Shpg. wt. 5 lbs.

No. 5H070. (2625B.) Retail \$19.97. Each.....**\$11.95**

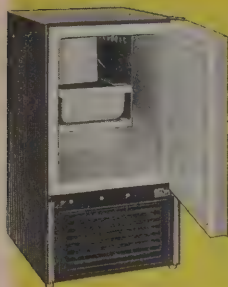
DISPOSABLE BAGS FOR No. 4H720, 5H020

Eureka brand. Package of 4 bags, 3 oz.

No. 4H922. (52227.) Retail \$199. Each.....**\$1.59**

COMPACT AUTOMATIC ICE CUBE MAKERS

Provide Inexpensive Supply of Ice Cubes for the Home, Office or Small Commercial Establishment. Easy to Install—No Water Drain Required



A \$285.21

5H432

COMBINATION ICE-CUBE MAKER & REFRIGERATOR

- Makes and stores up to 6 lbs. of ice cubes at any given time
- Holds 15 12-oz. cans, 4 qt. bottles, 6-lb. capacity ice bucket

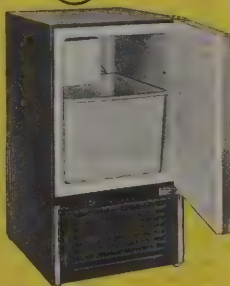


\$277.73 B

5H433

LARGE-CAPACITY ICE-CUBE MAKER

- Used where large quantities of ice are needed
- Makes and stores up to 25 lbs. of cubes per day



Automatic ice cube makers provide solid crescent shaped $2\frac{3}{8} \times \frac{3}{4} \times \frac{7}{8}$ " cubes whenever needed. Easy to install because no water drain is needed, keeping installation costs to a minimum. Durable, walnut grain vinyl finish. Polyurethane foam insulation. Permanently lubricated, 1/6 HP Tecumseh compressor in hermetically-sealed system. Molded rust-proof plastic interior. Anodized aluminum door frame magnetic door gasket. 15 W x 17 D x $26\frac{1}{2}$ " H. For use as free-standing or built-in unit. Cut-out dimensions allow 1" at back of unit for water line, cord. Installed with $\frac{1}{4}$ " OD water line and saddle valve, not included; available locally. UL & CSA listed. 115V, 60 Hz. U-Line brand.

A Combination Ice Cube Maker/Refrigerator.

Used where refrigerator space is desired along with ice-making capability. Stores up to 6 lbs. of ice cubes at any given time; makes up to 550 cubes or 22 lbs. of ice per day. Holds fifteen 12 oz. cans, four quart bottles and 6-lb. capacity, removable ice storage bucket, incl. Shpg. wt. 76 lbs. (WCM-18.)

No. 5H432. Ice Cube Maker/Refrigerator. Retail \$386.50. Each \$285.21

B Large Capacity Ice Cube Maker. Used where large quantities of ice are needed at a constant rate. Makes and stores up to 625 cubes or 25 lbs. of ice per day. Large, 25-lb. capacity removable ice storage bucket included. Shpg. wt. 75 lbs. (WCM48.)

No. 5H433. Large Capacity Ice Cube Maker. Retail \$376.50. Each \$277.73

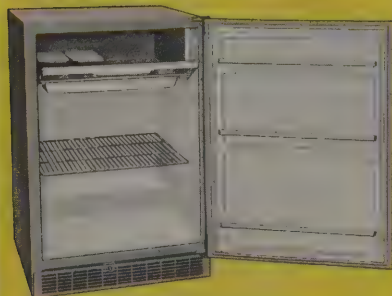
LIMITED WARRANTY

Ice cube maker and ice cube maker/refrigerator above are warranted against defects in material and workmanship under normal use (rental service excluded) for one year, including parts and labor. The entire hermetically-sealed refrigeration system of both units is warranted for an additional 4 years. See Limited Warranty Policy in Index.

6.7 Cu. Ft. UNDER-COUNTER REFRIGERATOR

Excellent for Executive Offices, Conference Rooms, Bars, Etc.

27 Lb. Freezer Chest. Urethane Insulation. Reversible Hinged Door



\$264.55



- Full width Freezer Chest Holds 27 lbs. of Frozen Food
- 2-Position Interior Shelf

Compact and attractive refrigerator for under-counter, eye-level or free standing use in kitchens, recreation rooms, dens, eating areas of offices and shops, etc. Unit has 6.7 cu. ft. capacity (rated by Association of Home Appliance Manufacturers standards) with full width freezer chest that holds either 8 ice trays (2 incl.) or 27 lbs. of frozen food. Has 3 door shelves. One 2-position interior shelf. Slimwall design, foamed-in-place polyurethane insulation. Measures $34\frac{1}{2}$ " H, $23\frac{3}{8}$ " W, $23\frac{3}{4}$ " D. Permanently lubricated 1/12 HP compressor in hermetically sealed system.

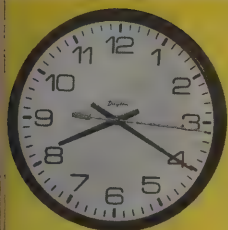
Attractive baked coppertone enamel finish on steel exterior and molded rustproof plastic interior with rounded corners to help make cleaning easier. Anodized aluminum door frame with magnetic gasket is easily reversed for right- or left-hand opening. Marvel brand (MB-1110). 115V, 60 Hz. UL listed. Shpg. wt. 116 lbs.

No. 3H144. 6.7 Cu. Ft. Under-Counter Refrigerator. Retail \$389.00. Each \$264.55

LIMITED WARRANTY

Under-counter refrigerator above is warranted against defects in material and workmanship under normal use (rental service excluded) for one year including parts and labor. The entire hermetically-sealed refrigeration system is warranted for an additional 4 years. See Limited Warranty Policy in Index.

CLOCKS FOR OFFICE, FACTORY, SCHOOL

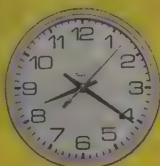


Dayton

**115V, 60 Hz
UL Listed**

14" Diameter

\$11.90
Black or Beige



9" Diameter
\$10.30
White or Beige



\$13.25
**Black
or
Brown**



DAYTON COMMERCIAL CLOCKS

Performance Meets Federal Spec. GG-C-446,
All State and Local Codes. UL Listed

14" DIAMETER CLOCK

Large, black numerals on 12" diameter white face. Black hour and minute hands, red sweep-second hand. 14" diameter high-impact polystyrene case with concealed hanger. Glass lens. Operates on 115V, 60 Hz. 4½ ft. cord set included. Black or beige color case.

Case	Stock No.	Retail	Each	Shpg. Wt.
Black	5H350	\$19.95	\$11.90	3
Beige	5H351	19.95	11.90	3

9" DIAMETER CLOCK

Black numerals on 8½" diameter white face, black hour and minute hands, red sweep-second hand. 9" diameter high-impact polystyrene case with concealed hanger. Glass lens. Operates on 115V, 60 Hz. 4½ ft. cord set included. Beige or white case.

Case	Stock No.	Retail	Each	Shpg. Wt.
Beige	5H352	\$17.15	\$10.30	2
White	5H353	17.15	10.30	2

14" ADMINISTRATOR CLOCK

For Office, School, Factory, Store, Etc. 115V, 60 Hz

Commercial Spartus wall clock for stores, offices, factories, hospitals, schools, other industrial, commercial and institutional uses. Meets all local, state and federal agency codes. Black numerals on white, 12" diameter dial. Black hour and minute hands, red sweep-second hand. 14" diameter high-impact Cyclocac case. Clear plastic lens. 115V, 60 Hz. UL listed. Spartus brand (551).

Case	Stock No.	Retail	Each	Shpg. Wt.
Black	4H027	\$22.00	\$13.25	3¾
Brown	4H015	22.00	13.25	3¾

BOTTLED DRINKING WATER COOLER

No Plumbing Required. Accepts Standard Water Bottles Available Locally

\$153.76

Some compact bottled water cooler has 1 gallon capacity; serves 30 persons per hour, even at room temperature at 90°F. Recessed, no-plumbing-needed; has lift-out 1½ quart water container. Unit can be placed anywhere ordinary house current is available. Vinyl cabinet accepts standard bottles, available locally. Provision for mounting cup dispenser, included, at left or right. 1/20 HP, sealed compressor, overload protected. Quiet, static-free condenser. Adjustable thermostat. 3½ ft stainless steel cooling reservoir. 20 gal. enameled steel cabinet, 37 H, 12½ W, 13" D. Walnut finish, woodgrain vinyl and satin aluminum trim. 115V, 60 Hz, 1.8 amps. UL, CSA listed. Cordley brand (CBE-1). Shpg. wt. 60 lbs. **3H111. Bottled Water Cooler. Retail \$219.65. \$153.76**

CORDLEY

**Measures Only
37 H x 12½ W x 13" D**

**1 GPH Capacity
Serves 30 Persons
Per Hour**



YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.

SEE WARRANTY INFORMATION ON PAGE 684

Halsey Taylor WALL-HUNG DRINKING WATER COOLERS

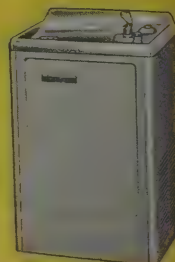
8 and 14 GPH Capacity. UL, CSA Listed. Certified by ARI to Meet Standard 1010-73

Bonderized steel cabinet mounts on wall, provides thermostat - controlled water 45-55°F. Two-stream bubbler with anti-squirt device is vandal resistant. Permanently lubricated compressor is hermetically sealed. Motor has automatic reset thermal protection. Electrical and plumbing connections concealed inside cabinet. 120V, 60 Hz.

\$268.64

No. 2W188

- Stainless Steel Top
- Anti-squirt Bubbler
- Dual Temperature Controls
- Hermetically Sealed Compressor
- Tin-Lined Copper Storage Tank



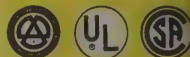
5 Year Limited Warranty
5 year limited warranty on refrigerant system and cooling tank, 1 year on other parts. See Limited Warranty Policy in Index.

PERSONS SERVED HOURLY PER COOLER

Stock No.	2W188	2W191
Office, Store, School	96	168
Light Mfg. Plants	56	98
Heavy Mfg. Plants	40	70

SPECIFICATIONS AND PRICES—WALL HUNG COOLERS

Capacity GPH	Plumbing	Fan Cooled Compressor	H	W	D	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
8.0	Concealed	1/5 HP	28"	18 1/4"	14 1/4"	WM8-A	2W188	\$368.00	\$268.64	95
14.0	Concealed	1/5 HP	28	18 1/8	14 1/4	WM14-A	2W191	379.00	276.69	98



WALL-HUNG DRINKING WATER COOLERS

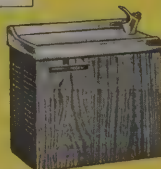
Simulated Recessed, Standard and Compact Models. Sealed Cooling System
Concealed Plumbing and Electrical Connections



CORDLEY



A
THIN LINE
No. 3H233
No. 3H234



B
COMPACT MODELS
No. 3H231
No. 3H232



C
STANDARD MODELS
No. 3H021, 3H022

5-YEAR LIMITED WARRANTY

5-year limited warranty on hermetically sealed refrigerant system and cooling coil, one year on other components. See Limited Warranty Policy in Index.

\$208.00

No. 3H231

Wall hung water coolers provide chilled drinking water without using valuable floor space. Entire cooling system hermetically sealed. Permanently lubricated thermal overload protected compressor motor. Push-button bubblers, squirt-proof and self regulating. Thermostat adjusts water between 45 and 55°F. Snap-out strainer for easy drain cleaning, removable front panel on all units. All electrical and plumbing connections concealed. 115V, 60 Hz. UL, CSA listed, ARI certified to meet standard 1010-73. Thin line units feature stainless steel contoured full height backplash, cabinet finished in attractive walnut wood-

grain vinyl. Standard and compact models feature one-piece wrap around cabinet, removable for access to all connections. Stainless steel anti-splash basin. Standard models are tan compact units in walnut woodgrain vinyl.

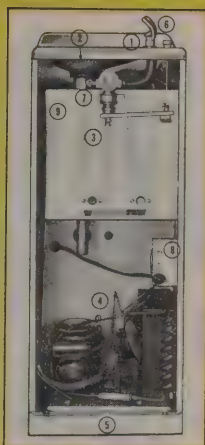
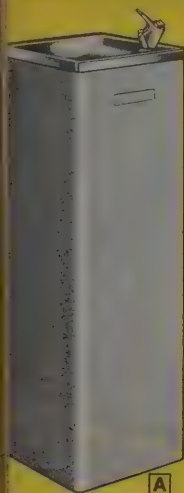
PERSONS SERVED HOURLY PER COOLER

Stock No.	3H233	3H234	3H231	3H232	3H021	3H022
Mfr's. Model	CSR-6	CSR-13	WHA-2	WHA-4	WHA-8	WHA-18
Office, Store, School	72	166	24	48	96	180
Light Mfg. Plants	42	91	14	28	56	108
Heavy Mfg. Plants	30	65	10	20	40	75

Fig.	GPH*	Compressor	Style	Cabinet Finish	H	W	D	Stock No.	Retail	Each	Shpg. Wt.
A	6.0	1/5 HP	Thin Line	Walnut	37"	18"	9 1/2"	3H233	\$433.90	\$306.78	75
A	13.0	Fan Cooled						3H234	457.00	322.05	75
B	2.0	1/20 HP	Compact	Walnut	15	15 1/4	13	3H231	297.60	208.00	55
B	4.0	Fan Cooled						3H232	323.20	225.50	55
C	8.0	1/5 HP	Standard	Tan	26	16	13	3H021	371.40	251.23	85
C	15.0	Fan Cooled						3H022	400.00	261.24	89

(*) Standard rating: 90°F room, 80°F water in, 50°F water out.

Falsey Taylor FLOOR MODEL DRINKING WATER COOLERS



B

PERSONS SERVED HOURLY PER COOLER

Stock No.: 2W154 2W155 2W156 3W070

Office, Store, School	36	50	125	195
Light Mfg. Plants	21	35	70	98
Heavy Mfg. Plants	15	25	50	70

**HEAVY DUTY
FLUSH MOUNT**

CONSTRUCTION FEATURES

COOLER TOP. High lustre stainless steel; designed to prevent splashing, insure drainage.

SEPARATE DRAIN STRAINER ASSEMBLY. Chrome-plated brass; removable for cleaning in line without removing cooler top; 1 1/4" in line.

COOLING STORAGE TANK. All-copper; hot-dipped pure tin lining meets all sanitation codes; drinking water line coiled around and hot-tinned to tank for cooling efficiency.

CONDENSING UNIT ASSEMBLY. Compressor is hermetically sealed and lubricated for life; motor insures compressor start up; automatic re-set overload protector eliminates overloading; two-row fin type condenser, fan motor.

CABINET. Heavy ga. bonderized steel; spot welded, unitized construction; enamel finish.

6. EXCLUSIVE TWO-STREAM BUBBLER (No. 3W070 only). One-pc. chrome plated brass forging; two streams converge to provide a comfortable "mound" of drinking water. Non-removable anti-squirt device. Vandal resistant.

7. AUTOMATIC REGULATING/OPERATING VALVE. Maintains a constant stream height under line pressures varying from 20 to 90 psi.

8. DUAL TEMPERATURE CONTROLS. Primary operating thermostat is pre-set to insure a min. differential of $\pm 5^\circ \text{F.}$ from 50°F. Backed up by a second non-adjustable thermostat.

9. PRE-COOLER. Increases efficiency, boosts capacity up to 60%. Double wall construction has incoming water line coiled around and hot-tin bonded to cold water drain line.

**5-YEAR LIMITED WARRANTY ON HERMETICALLY SEALED
REFRIGERANT SYSTEM AND COOLING TANK
ONE YEAR LIMITED WARRANTY ON ALL OTHER COMPONENTS
SEE LIMITED WARRANTY POLICY IN INDEX**

COMPACT WATER COOLERS—Economical and require only one square foot of floor space. Two-stream bubbler features an integral regulator that automatically controls stream height. Individually tested before shipment. Static-filled 2W154 is used in small offices and air-conditioned areas. Fan-cooled 2W155 and 2W156 for most other applications, including large offices and plants. Tan finish. UL, CSA listed. Certified by ARI to meet standard 1010-71.

B FLUSH MOUNT WATER COOLER—Fits directly against the wall with all plumbing and electrical hookups made through the back to eliminate cleaning problems and unsightly connections. Exclusive two-stream bubbler builds a large, comfortable "mound" of drinking water. Separate automatic stream regulator is located inside cabinet to prevent tampering. Individually tested before shipment. Gray finish. UL listed. Certified by ARI to meet standard 1010-71.

COMPACT, FREE STANDING, FLOOR TYPE WATER COOLERS—DATA & PRICES

GPH	Plumbing	Compressor	H	W	D	Model No.	Stock No.	Retail	Each	Wt.
2.6	Exposed	1/6 HP, Static-Cooled	37"	12 1/4"	12 1/4"	83C	2W154	\$272.00	\$198.56	70
6.0	Exposed	1/5 HP, Fan-Cooled	37"	12 1/4"	12 1/4"	85C	2W155	318.00	232.14	85
9.6	Exposed	1/4 HP, Fan-Cooled	37"	12 1/4"	12 1/4"	810C	2W156	348.00	254.04	90

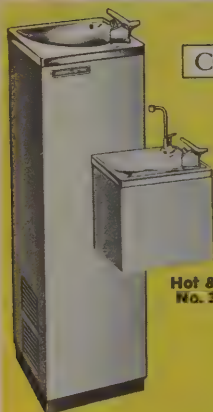
HEAVY DUTY, FLUSH-TO-WALL, FLOOR TYPE WATER COOLER—DATA & PRICES

14.0	Concealed	1/5 HP, Fan-Cooled	40"	15 1/4"	13 1/4"	WT14A	3W070	384.00	280.32	110
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SEE WARRANTY INFORMATION ON PAGE 684

FLOOR MODEL DRINKING WATER COOLERS

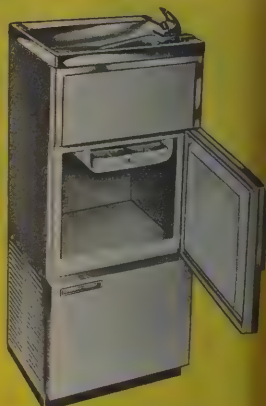
2.6 to 12 GPH. S squirt-Proof, Self-Regulating Push Button Bubbler. Stainless Steel Top
Free Standing or Flush Mount. Choice of Cold and Hot/Cold Models



CORDLEY



Hot & Cold
No. 3H104



FREE STANDING
Cold Only: No. 3H016, 3H031, 3H032

FLUSH MOUNT
No. 3H013, 3H014

COMPARTMENT
Cold Only: No. 3H033

\$205.00 Quality-built for years of dependable service. Entire cooling system—compressor and coils—hermetically sealed. Compressor motors have thermal protection, permanently lubricated. Push button operated. S squirt-proof, adjustable bubbler valve. #20 gauge stainless steel top. Thermostat adjustable for water 45 to 55°F. Quick, simple installation. Easy maintenance; snap out strainer for easy drain cleaning, front panels are removable on all models.

All units on this page are UL and CSA listed and comply with ARI standard 1010-73.

No. 3H104 supplies chilled water plus hot water for instant coffee, tea, soup. Capacity 60-6 oz. cups/hour. Has cup filler, bubbler.

No. 3H033 has large, 1 cu. ft. compartment with stainless steel lining, 2 ice trays, full-sized magnetized door lock. Stores large cold-drink bottles, food, etc. Separate compressors for compartment and cooling water. 115V, 60 Hz. 6-ft. 3-conductor cord. Baked-on sandalwood enamel finish.

LIMITED WARRANTY

Limited warranty on hermetically sealed refrigerant system and cooling coil for 5 years; one year limited warranty on all other components. See Limited Warranty Policy in Index.

OPEN ACCOUNT TERMS granted on request to all resellers with established credit.

MAXIMUM NUMBER OF PERSONS SERVED HOURLY PER COOLER

TYPE OF USE	Stock No.	3H016	3H104	3H013	3H031	3H032	3H014	3H033
	Cordley Model	EH-4	EHA-4H	CWA-6	EHA-8S	EHA-11	CWA-12	CPR
Office, Store, School		31	55	72	91	120	144	54
Light Mfg. Plants		19	32	42	53	70	84	32
Heavy Mfg. Plants		13	23	30	38	50	60	22

COMPACT FLOOR TYPE WATER COOLER—DATA & PRICES

GPH*	Mounting	Plumbing	Compressor	H	W	D	Stock No.	Retail	Each	WH
2.6	Free-Standing	Exposed	1/6 HP Static-Cooled	44	12	12	3H016	\$301.80	\$205.00	65
7.6	Free-Standing	Exposed	1/6 HP Static-Cooled	44	12	12	3H031	351.60	237.00	65
10.0	Free-Standing	Exposed	1/5 HP Fan-Cooled	44	12	12	3H032	359.85	250.00	70

HEAVY-DUTY FLUSH-TO-WALL TYPE WATER COOLER—DATA & PRICES

6.0	Flush	Concealed	1/5 HP Fan-Cooled	43	15	13	3H013	385.90	270.00	107
12.0	Flush	Concealed	1/5 HP Fan-Cooled	43	15	13	3H014	420.00	280.00	111

HOT AND COLD WATER UNIT—DATA & PRICES

4.0†	Free-Standing	Exposed	1/6 HP Static-Cooled	44	12	12	3H104	457.75	287.00	81
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REFRIGERATED COMPARTMENT TYPE WATER COOLER

4.5	Free-Standing	Exposed	1/6 & 1/20 HP Fan-Cooled	44	17	14½	3H033	630.80	447.30	14
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(*) Standard rating: 90°F. room, 80°F. water in, 50°F. water out.

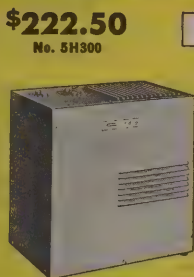
(†) Hot water, 60-6 oz. cups/hour.

PACKAGED WATER CHILLERS, REMOTE FOUNTAINS

Chills Water for Drinking, Ice Making, Photo Processing, Etc. Cools Beverages, Coolants
Adjustable Thermostat, Range 47° to 55°F. Cold Water Reserve. 115V, 60/50 Hz



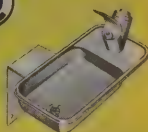
**1/4 HP
CONDENSER**



**1/6 HP
CONDENSER**



**DELUXE
FOUNTAIN
\$84.98**



**STANDARD
FOUNTAIN
\$58.77**

CORDLEY



USES INCLUDE:

Schools, Hospitals,
Office Buildings,
Department Stores
Cafeterias, Snack
Bars, Restaurants
Factories, Shops,
Warehouses
Photo Processing
& Chemical Labs
Private Homes



**5-Year Limited
Warranty**

5-year limited warranty on hermetically sealed refrigerant system and cooling coil, one year on other components. See Limited Warranty Policy in Index.

compact, easily installed Cordley units supply large quantities of chilled water for drinking, photo or x-ray processing, machine cooling, etc. are suitable for cooling water for beverage dispensers, pre-cooling water to increase output of ice makers, and other applications requiring chilled water. Ideal for use with remote fountains, listed below. All-in-one units, with air-aided, permanently lubricated compressors, overload protected and hermetically protected steel. Quiet, heavy duty fan motors, lubricated for life. Automatic thermostat, adjustable 47 to 55°F output temperature. Thermostat No. 3H047 is adjustable to 68°F for photo processing. Cold water reserve for peak demand periods: 1/2 gal. on No. 5H300, 2 gal. on

No. 3H047. Meets requirements of most exacting sanitary codes, including U.S. Department of Commerce Standard C 5127-45, Refrigeration Institute Standard 1010-62. UL, CSA listed. Rust-proofed heavy gauge phosphatized steel cabinets, gray enamel finish. Moisture and vermin-proof insulation. 115V, 60/50 Hz. Capacity on 50 Hz is 85% of 60 Hz figure.

REMOTE WATER FOUNTAINS can be used with above or other water chillers. Deluxe model has stainless steel top, sandalwood cabinet. Standard model is stainless steel with attached mounting bracket. Both have chromed push-button bubblers with automatic stream height regulator.

COOLING CAPACITIES: GALLONS OF 50°F WATER PER HOUR

Inlet Water Temp.	70°F				80°F				90°F				100°F			
	70°	80°	90°	100°	70°	80°	90°	100°	70°	80°	90°	100°	70°	80°	90°	100°
Model No. 5H300	7.6	5.2	3.9	3.2	2.3	4.8	3.7	2.8	6.7	4.4*	2.4	2.6	6.0	4.1	3.1	2.4
Model No. 3H047	18.3	12.1	9.0	7.0	17.2	11.4	8.4	6.4	15.6	10.3*	7.6	5.8	13.4	8.9	6.4	4.7

Photo Processing—Thermostat included on No. 3H047 is adjustable to chill water to 68°F, 28 GPH, when inlet water is 80°, room temperature 90°F. (* Standard Industry Rating.

PACKAGED WATER CHILLERS—DATA & PRICES

Condenser P	Reserve Gallons	H	Dimensions W	D	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
1/4	1 1/2	15 1/8"	14 1/2"	10"	CRC-4	5H300	\$317.85	\$222.50	55
1/6	2	22	19 1/2"	7 3/8"	CR2-10	3H047	394.60	281.00	74

REMOTE WATER FOUNTAINS—For Above or Other Water Chillers

Model	H	Dimensions W	D	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
Deluxe	10 3/4"	12"	12"	WF-5000	4H885	\$121.40	\$84.98	10
Standard	6 3/4"	9"	4 1/4"	WF-2000	4H740	83.95	58.77	15

SEE WARRANTY INFORMATION ON PAGE 684

FANON/COURIER PUBLIC ADDRESS SPEAKERS

Use with Communication Systems Designed for Either Indoor or Outdoor Use

PAGING SPEAKERS



\$14.97

Compact paging speaker has talkback feature. Handsome walnut finish cabinet has wood baffle enclosure. Unit has volume control and is weatherproof for indoor or outdoor use. Use 2-wire

speaker cable (not incl.) for connection to sound source. Speaker designed for high efficiency and sensitivity. 15 watt output level. Cabinet measures 6L x 7W x 3½" D. Fanon/Courier brand (BLES 5). Shpg. wt. 3 lbs.

No. 5H456. Retail \$19.95. Each.....\$14.97

PAGING SPEAKERS

For Indoor/Outdoor Use. Selectable Power Taps

No. 5H455

\$22.44



Weatherproof speakers for P.A. or general purpose use. 250 Hz to 13 KHz response. No. 5H101 speaker has built-in matching transformers, allow selection of 70.7V line power taps, adjust to

four output levels: 15, 7.5, 3.5 and 2.0 watts. Both paging speakers have 8 ohm voice coil impedance. Molded plug, 18" leads. Aluminum construction. Fanon/Courier brand.

Watts	Dia.	Long Mod.	Mfr. No.	Stock No.	Retail	Each	Shpg. Wt.
15	6½"	8"	HDA6	5H455	\$29.95	\$22.44	4
15	8½"	11	15T	5H101	46.49	34.87	5½

LIMITED WARRANTY

All Fanon/Courier products listed on this page are warranted against defects in material and workmanship under normal use (rental service excluded) for 90 days, including parts and labor. See Limited Warranty Policy in Index.

P.A. DESK MICROPHONE

Large Press-to-Talk Switch can be Locked for Continuous Broadcasting



No. 5H452

\$41.94

Compatible with No. 5H453 amplifier or any existing P.A. system, this dynamic microphone has a cardioid (unidirectional) polar pattern and acoustical cartridge to provide full rich audio characteristics. It features an adjustable head, large press-to-talk bar, and lock switch for continuous use.

—52db high and low impedance output level. Output impedance: 47K ohms (Hi) and 500 ohms (Lo). Comes with 20 ft. of 3-cond. cord with microphone connector No. 75 MCIF Amphenol to fit MIC No. 2 jack on No. 5H453 amplifier above. Dimensions: 9 x 5¼ x 3¾". Black with silver trim finish. Fanon/Courier brand (PPM-1). Shpg. wt. 4 lbs.

No. 5H452. Retail \$55.95. Each.....\$41.94

5 WATT MEGAPHONE/SIREN

Built-In Siren Alarm Signal. Battery Operated



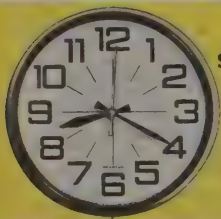
\$73.10

Comfortable and convenient to use. Volume control permits adjustment to full 5 watt output as battery strength decreases. Built-in siren signal for use as warning alert, fog horn, etc. Sturdy, high-impact ABS plastic bell. Weatherproof built-in microphone. Trigger-talk switch. Uses six standard "C" batteries, not included. 6¼ x 6¼" square bell, 13" length. Fanon/Courier brand (MV-5S). Shpg. wt. 5 lbs.

No. 4H973. Retail \$97.95. Each.....\$73.10

14" ADMINISTRATOR CLOCK

For Office, School, Factory, Store, Etc. 115V, 60 Hz



\$13.25

Black or Brown



Commercial Spartus wall clock for stores, offices, factories, hospitals, schools, other industrial, commercial and institutional uses. Meets all local, state and federal agency codes. Black numerals on white, 12" diameter dial. Black hour and minute hands, red sweep-second hand. 14" diameter high-impact Cyclocac case. Clear plastic lens. 115V, 60 Hz. UL listed. Spartus brand (551).

Case	Stock No.	Retail	Each	Shpg. Wt.
Black	4H027	\$22.00	\$13.25	3¾
Brown	4H015	22.00	13.25	3¾

Thousands of Dealers and Service Men
Depend On Grainger Supply Service
For Pick-ups and Same-Day Shipping



FANON HEAVY DUTY 35 WATT AMPLIFIER



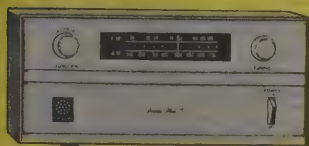
No. 5H453

\$179.48

Solid state public address amplifier is designed for continuous duty at full volume. 105-125 VAC, 50-60 Hz, 125W. 12-15 VDC, 85W. Unit features three hi-lo switchable mike channels, master volume, separate bass and treble controls and overdrive protection circuit. Front panel controls: 3-microphone volume, 1-master volume, 1-aux/tuner, 1-bass, 1-treble, 1-MAG IN/Mic 3, 1-power on/off. Inputs: aux/tuner, mag phono, mic 1, mic 2, mic 3, Hiz/Loz. Outputs: 4 ohm-8 ohm-16 ohm, 25V and 70V bal/unbal., 3V booster/tape. (2 EZ-connect jacks), screw terminals. Fanon/Courier brand (PP35). Shpg. wt. 8¾ lbs.

No. 5H453. Retail \$239.50. Each **\$179.48**

**COMPATIBLE WITH
ANY P.A. SYSTEM**



No. 5H454

\$104.66

FANON AM/FM TUNER

Sensitive AM/FM tuner can be used with No. 5H453 amplifier or added to any existing P.A. system to provide musical background. Features automatic frequency control (AFC) with drift free performance. Three front panel controls: AM/FM/AFC, tuning, on/off. AM tuning range is 540-1650 KHz, frequency response is 100-8000 Hz. FM tuning range is 88-108 MHz, frequency response is 100-7000 Hz. AM sensitivity: (20dB S/N) — 48dBm loop antenna (included). FM sensitivity: (30dB quieting) requires — 25dBm external antenna (not included). Dimensions: 13¼ x 11½ x 6¾". Fanon/Courier brand (PPT). Shpg. wt. 10 lbs.

No. 5H454. Retail \$139.50. Each **\$104.66**

P.A./INTERCOM COMPONENTS COMPATIBILITY CHART

Chart below points out the public address and intercom intermixable components that can be used with each other in a compatible system.

Description	Stock No.	7 Station Master No. 4H888	7 Station Master No. 5H023	13 Station Master No. 5H024	5 Station System No. 5H097	2 Station System No. 5H100	35 Watt Amplifier No. 5H453
Station Master							
Intercom	4H888	X					X
Station Intercom Remote	4H890	X					
1 Ft. 8-Conductor* Cable	4H893	X					
Station Intercom Remote							
Station Master	5H025		X	X			
Station Master	5H023		X	X			X
Station Master	5H024		X	X			X
1 Ft. 8-Conductor* Cable	5H027		X	X			
1 Ft. 14-Conductor* Cable	5H028			X			
1 Ft. 1-Conductor* Cable	5H390†	X	X	X			X
Station Intercom Remote							
1/2" Microphone	5H098				X	X	
AM/FM Tuner	5H452						X
	5H454						X
Ring Horn	5H101†						X
Ring Horn	5H455†	X	X	X			X
Door/Outdoor							
aging Speaker	5H456†	X	X	X			X

No. 5H096 and 5H451 wireless intercoms do not accept accessories.

Each conductor is one pair of wires. (†) Each conductor is a single wire.

To connect No. 5H101 page horn, No. 5H455 page horn or No. 5H456 speaker use No. 5H390 cable.

No. 1W877

\$3.28

Lots 12



DRAWERS FOR SHELVING & STORAGE UNITS

Steel Construction. Fit 12 and 18" Deep Shelving & Drawer Units
Includes Two Adjustable Dividers. Priced Per Drawer in Lots of 12 Only

Drawer For:	Overall Dimensions			Stock No.	Retail	Lots 12 Each	Shpg. Wt.
	H	W	D				
12" Shelf Depth*	4½"	5¼"	11½"	1W877	\$4.15	\$3.28	2¼
18" Shelf Depth*	4½"	5¼"	17½"	1W878	4.86	3.80	3¼

(*) Front to rear shelf depth.

SEE WARRANTY INFORMATION ON PAGE 684

INTERMIXABLE/MULTI-STATION FANON INTERCOMS

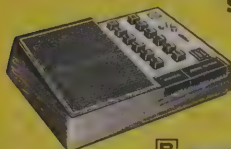
MASTER UNITS FEATURE:

- Standby/Off switch cuts off incoming calls
- Signal light to indicate incoming call or other unit listening in
- Standby light and privacy switch
- Signal light indicates called party is busy
- Talk-listen switch with lock

A 13 STA. MASTER

\$109.30

5H024

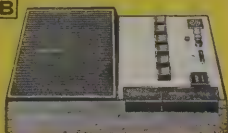


B

7-STA. MASTER

\$90.80

5H023

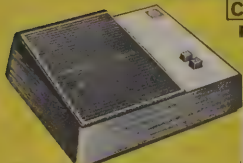


C

REMOTE UNIT

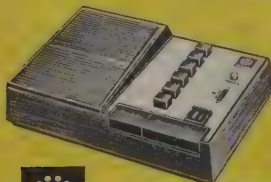
\$22.33

5H025



TYPICAL INTERMIX

Masters indicated in black, remotes in white.



D

7-STATION MASTER

\$50.20

4H888



REMOTE UNIT

\$16.75

4H890



E



Master-to-Remote System



All Master System

LIMITED WARRANTY

All Intermixable/multi-station intercoms on this page are warranted against defects in material and workmanship under normal use (rental service excluded) for 90 days, including parts and labor. See Limited Warranty Policy in Index.

INTERMIXABLE INTERCOMS

Mix any combination of 2 to 7 or 13 master and remote units to custom-make a system for office service shop, factory, store or institution. Make private station-to-station calls or conference calls with persons at several units. Simple push button operation. Balanced line design eliminates crosstalk, reduces audio loss on long runs up to 800' range between stations. No. 5H023 can be used with up to 6 remotes or masters, No. 5H024 up to 12 remotes or master units.

Masters have 1-watt power for normal conversation; 4-watt power boost to page in noisy areas. Pre-wired terminal boxes for easy installation. All units have 4 transistors in intercom circuit. 2 silicon rectifiers in power supply (located in plug to minimize AC interference). 4-watt maximum output. 3 1/2" speakers. Sealed, self-cleaning pushbutton switches for long life. Master measures 9 1/4 x 6 1/4 x 3 1/2". Remote—6 1/4 x 6 1/4 x 3 1/2". UL listed power supply.

Fig.	Mfr. No.	Stock No.	Retail	Each	Shpg. Wt.
A	Exec. 13	5H024	\$145.75	\$109.30	7 1/2
B	Exec. 7	5H023	121.00	90.80	7
C	Exec. 1	5H025	29.95	22.33	1 1/2

100 FT. CONNECTING CABLES FOR INTERMIXABLE INTERCOMS

Interconnecting cable must have one more pair of wires than the total number of all master and remote stations in the system PLUS one pair of shielded wires between each remote station and its master. For example, in a system employing 4 Exec. 13 masters and 2 Exec. 1 remotes, connecting cable will require 7 pairs of wires plus one pair of shielded wire between each remote and master. Select cables so that total number of pairs of conductors ordered is greater than the number of master and remote stations in the system. When one master is used with a number of remotes, use one (pair) conductor cable from the master to each remote.

Conductors (Pairs)	Mfr. No.	Stock No.	Retail	Each	Shpg. Wt.
8	8PW	5H027	\$57.00	\$42.75	5
14	14PW	5H028	83.60	62.70	9
1*	SCB	5H390	18.60	13.92	3

(*) Pair Shielded.

MULTI-STATION INTERCOMS

7-Station Master and Remote Units (D & E). For an all master system or 1 master & all remotes. Master unit lets any station carry on private conversation with any other station plus conference calls. Hold up to 3 private, 2-way conversations at a time with 7-station unit. Masters have easy-to-install, prewired terminal boxes.

Master-and-remote system lets master converse with any remote, or several remotes at a time, but remotes cannot converse with each other. 7-station master can be used with up to 6 remotes. Masters have solid-state circuitry, full 1-watt output, volume control, On/Off switch, talk-listen switch with lock position for hands-free communication. Master units have small, separate UL listed power supply that plugs into standard 115V AC outlet. Remote units have signal button for calling master station. Each remote can be set as either "private" or "non-private." On "private" settings, conversations between master and remote cannot be heard by other remotes. 7-station measures 9 1/4 L x 6 1/4 x 3 1/2" H. Remote—6 1/4 L x 6 1/4 W x 3 1/4" H.

Fig.	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
D	DIR-7	4H888	\$66.95	\$50.20	5
E	DIR-1	4H890	22.35	16.75	1 1/2

100 FT. CONNECTING CABLE

8-conductor for 7-station master. Shpg. wt. 5 lbs. No. 4H893. Retail \$26.25. Each \$19.67

WIRED-TYPE & WIRELESS FANON INTERCOMS

MASTER-REMOTE, WIRED-TYPE FANON INTERCOMS

3-Station Master-To-Remote Starter System. sic System, as supplied, includes one master d two remotes; allows addition of two extra door remotes listed below at any time. Fea- res modern styling and integrated circuit for ater output and sensitivity. Master can call to four remotes individually or collectively. ep-tone from remote signals master. Pilot p and hands-free talk lock on master. Con- nent push-to-talk rocker bar. Separate 115V power supply minimizes hum and static. 250 master-to-remote range. Two lengths of 50 plug-in cable furnished. Ivory, brown and ulated wood-grain styrene cases. Each unit 2 x 3½ W x 7" L. Shpg. wt. 4¾ lbs.

5H097. Intercom System (IN-404). Retail .00. Set. **\$41.38**

Extra Indoor Remote Intercom. Includes 50 ft. cable. Fanon brand (IN-2). Shpg. wt. 1¼ lbs.

5H098. Retail \$15.49. Each \$11.36

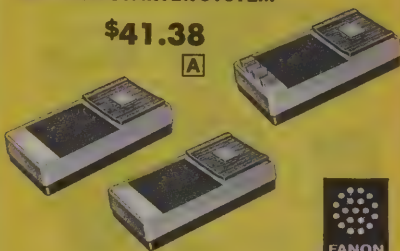
High-Output, 2-Station Master & Remote nomical Intercom system has integrated cuits for peak performance and sensitivity. cepts additional indoor remote, listed above. ster has convenient push-to-talk rocker bar, ot lamp, On/Off switch with volume control d lock for continuous talk. Remote can signal ster even when system is off. Separate 115V power supply minimizes hum and noise. 250' ster-to-remote range with 50' plug-in cable nished. Ivory, brown and simulated wood- ain styrene cases. Each unit measures 2 H x W x 7" L. Shpg. wt. 3 lbs.

5H100. Intercom System (IN-302). Retail .95. Set. **\$28.45**

3-STATION STARTER SYSTEM

\$41.38

A



HIGH-OUTPUT, 2-STATION

\$28.45

B



ALL-MASTER, WIRELESS FANON INTERCOM

g into standard 115V AC outlets & operate ywhere in an area powered by the same uti- transformer even from building to building, m- municating through existing building wir- and power lines. Units may be carried out, and plugged in whenever user wants to m- municate. Lock-to-talk setting for hand-free eration or continuous monitoring of chil- en's rooms, entrance, etc.

2-Channel Intercom. Gives user the flexibil- of selecting the exact number of stations quired. High-power, integrated circuit adds tra range and sensitivity, less interference. ecial filter circuit minimizes background line ise. Unit has pilot light, On/Off volume con- ol, talk-listen switch with lock position for ntinuous transmission and channel selector itch. Ivory, brown and simulated wood-gra- ish styrene case. 2 H x 3½ W x 7" L. Shpg. t. 1¼ lbs.

5H096. Deluxe 2-Channel Intercom (IN-500). tail \$32.30. Each **\$24.24**; lots 2 **\$23.04**



2-CHANNEL INTERCOM

\$23.04

Per Station
Lots 2

C



LIMITED WARRANTY

All intercoms on this page are warranted against defects in material and workman- ship under normal use (rental service ex- cluded) for 90 days, including parts and labor. See Limited Warranty Policy in Index.

CARBIDE-TIPPED ELECTRIC ENGRAVER

r permanently marking dies, molds, tools, rts, sporting goods, glass, jewelry and hun- ds of other items in the shop or at home. rmanently lubricated, 115V, 60 Hz, AC only, iprocating motor delivers up to 7200 strokes r minute. Stroke can be varied from light to avy by simply turning adjustment knob at ck of tool. Equipped with tungsten carbide raving tip to provide sharp, clean lines. gh-impact plastic housing. Double-insulated. t., 2-cond. cord set. UL listed. Wt. 13 oz.

2Z557. Retail \$8.95. Each \$5.96



\$5.96

SHOCK ☐ GUARD
DOUBLE-INSULATED

FANON TWO STATION FM WIRELESS INTERCOM SYSTEM

No Wiring Required. Units Plug into Existing 115VAC Outlets and Are Ready to Use



No. 5H451
\$95.37



- 2 STATION, 2 CHANNEL SYSTEM
- NO INSTALLATION REQUIRED—PLUG IN ANY 115VAC OUTLET AND USE
- BLANKS OUT ALL BACKGROUND NOISE AND INTERFERENCE

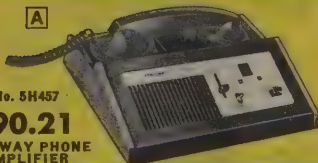
Simple installation, easy for anyone to use. System consists of two master intercom units for use in office, factory or home. Solid state construction permits instant operation. No installation is required as each master intercom unit is simply plugged into any existing AC outlet and uses the building's electric wiring as a message path. Advanced phase-locked loop FM circuitry effectively blanks out background hum, static and interference caused by fluorescent fixtures, dimmer switches or electrical motors that may be operating on the same power line. Any number of master units can be operated on the same line.

Each master unit has two channels to permit two simultaneous talk paths or selective calling of a particular station. Other features include large press-to-talk panel with special lock switch for continuous talking or monitoring; large speaker-microphone combination; "red" ready light and on/off volume control. Charcoal brown/black and woodgrain finished plastic case. Dimensions: 7 x 3 3/4 x 1 3/4". Operates on 115 VAC 60 Hz. Fanon-Courier brand (FMW-2). Shpg. wt. 4 lbs.

No. 5H451. Fanon Two Station FM Wireless Intercom System. Retail \$127.95. Each.....\$95.37

FANON TELEPHONE AMPLIFIERS

A



No. 5H457
\$90.21
TWO WAY PHONE AMPLIFIER

Solid State Fanon telephone amplifiers cradle phone receiver to amplify conversations; leave user free to check files, take notes or even type. Acoustic reflector concentrates user's voice, directs it into phone mouthpiece. Receiver volume adjustable for private conversation or room filled conference call amplification. Needs no installation or telephone company approval and is not subject to tariffs.

A Fanon Two Way Telephone Amplifier. Features automatic voice control switching from send to receive and manual override of other party when desired. Includes separate built-in speaker and microphone, high-gain audio circuitry and built-in ready light. Panel controls: receive sensitivity, receive volume, automatic or manual, transmission or reception, power on/off. Black and brushed chrome finish with wood-

B



No. 4H891
\$15.15
PORTABLE PHONE AMPLIFIER

grain plastic end panels. Dimensions: 9 D x 11 1/2 W x 3 3/4" H. Operates on 115V, 60 Hz. Fanon-Courier brand (FTA-100). Shpg. wt. 5 lbs.

No. 5H457. Fanon Two Way Telephone Amplifier. Retail \$120.00. Each.....\$90.21

B Fanon Portable Telephone Amplifier. Amplifies only incoming calls through separate extension speaker, which has 40" cord to allow placing out of user's way. Has adjustable receiver volume control. 4-transistor circuitry uses 9V battery not included. Battery off when unit is not in use. Amplifier is 9 x 4 x 2 1/2" and speaker case 3 1/2 x 2 x 2 3/4". Does not work on General Telephone Co. equipment. Beige and brown finished plastic cabinet. Fanon-Courier brand (FTA-5). Shpg. wt. 2 lbs.

No. 4H891. Fanon Portable Telephone Amplifier. Retail \$20.95. Each.....\$15.15

DECORATOR 20W FLUORESCENT FIXTURE

Dayton



\$30.00



For office, store and home use. Glare-free prismatic plastic diffuser hinges from either side for servicing. Prewired with Advance or equivalent "P" rated, rapid start ballast; tube holders installed in place. Die stamped steel housing with baked white enamel finish, wood-grain finished steel end panels. Uses four 20W F20T12 tubes not included; see Index under Tubes, Fluorescent. For flush or suspension mounting, single or in rows. 15 1/2" W, 24 L, 3 3/8" H. 115V, 60 Hz. UL listed, IBEW label. Shpg. wt. 16 lbs.

No. 2V299. Less Tubes. Retail \$54.55. Each, 30.00

YOUR GRAINGER SALESMAN is always available to assist you on merchandise selection.

23 CHANNEL CITIZENS BAND TRANSCEIVERS

BOTH SHARP BRAND MODELS INCLUDE THESE FEATURES:

- 23 Channel Operation
- 100% Solid State Circuitry
- 5 Watt Maximum Power Input to Final RF Stage
- 3 Watt Maximum Audio Output
- Automatic Noise Limiter Circuit
- Separate Volume and Squelch Controls

- Delta Tuning Control
- Push-to-Talk Microphone
- Power ON Indicator Light
- Frequency Range: 26.965 to 27.255 kHz
- Matched to 50 Ohm Antenna Impedance
- 12 Volt DC Power Operation

FCC LICENSE REQUIRED

1-transistorized Sharp citizen band transceivers are lightweight units that install easily in limited space. Units feature a dual conversion superhetrodyne receiver with squelch and automatic noise limiter circuit that has excellent sensitivity for increased range, with high selectivity to prevent adjacent channel interference.

Delta tune control lets user pin-point reception from off-signal transmitting stations.

Squelch control eliminates noise for quieter performance between transmission and receiving signals. 100% audio modulation capability, up to 5 watts maximum collector power to final RF stage. Audio output is maximum 3 watts. 3 1/4" permanent dynamic speaker.

1 crystals for 23-channel operation, microphone, mounting bracket and power cable for VDC (+ or - ground installation) included. Pin type detachable microphone connector enables user to easily change microphones. Both units require antenna of 50 Ohms impedance.

Compact unit measures only 5 3/4" W x 2 1/4" H x 8 7/8" D. Channel selector knob, off/volume switch, squelch control and delta tune switch located on front panel. Built-in automatic noise limiter filters out background noises for clearer reception. Mounting bracket included. Sharp model (CB-700). Shpg. wt. 3 1/2 lbs.

5H445. Sharp CB Transceiver. Retail \$119.95. Was \$93.68. Each, While Stocks Last, \$74.94

Deluxe CB transceiver has large digital channel indicator and signal/RF power meter that lights when power is turned on. Off/volume switch, Delta tune switch, automatic noise limiter (ANL) switch, and public address and squelch switch located conveniently on front panel. ANL switch lets user tune out unwanted signals for clearer reception. Public address switch allows unit's amplifier to drive auxiliary speaker (not included). Off/volume switch, squelch switch and channel selector have bright chrome finish knobs. 5 3/4" W x 2 1/4" H x 7 7/8" D. Sharp brand (CB-800). Shpg. wt. 3 1/2 lbs. Mounting brackets included.

5H446. Sharp Deluxe CB Transceiver. Retail \$99.95. Was \$109.28. Ea. While Stocks Last, \$87.45

A Sharp CB Transceiver

\$74.94 While Stocks Last
No. 5H445



B Sharp Deluxe CB Transceiver

\$87.45 While Stocks Last
No. 5H446



FOR ANTENNAS, SEE INDEX UNDER ANTENNAS, CB RADIO

LIMITED WARRANTY

Sharp transceivers described on this page are warranted against defects in materials and workmanship under normal use for 1 year, parts and labor. See Limited Warranty Policy in Index.

POCKET TAPE RECORDER FOR BUSINESS, HOME

Comes with Standard and NiCad Batteries, AC Cord

Multiple uses—dictation, recording estimate information on site, inventory counts, stock counts for re-ordering, and other business uses, as well as recording of voice or music for personal entertainment. Advanced integrated circuitry, motor-controlled motor for reliable, stable performance, remarkably clear sound. Automatic recording level control. Built-in condenser type microphone. Pushbutton start-stop control on unit, plus remote control cord for use when transcribing. Battery voltage/record level meter. Operates on AA cells, rechargeable nickel cadmium battery pack or V, 60 Hz adapter, all included. Carrying strap, earphone, black cassette also furnished; uses standard blank cassette tapes available locally. Black case, silver trim 4 1/4" W, H 1 5/8" D. Sharp brand (RD-428U). Shpg. wt. 3 lbs.

5H408. Pocket Tape Recorder. Retail \$89.95. Was \$64.03. Ea. While Stocks Last, \$60.26

\$60.26 While Stocks Last



90-Day Limited Parts & Labor Warranty; additional 9-month limited warranty on parts only. See Limited Warranty Policy in Index.

YOU CAN GET SAME-DAY SHIPPING SERVICE ON MOST ITEMS IN THIS MOTORBOOK

SEE WARRANTY INFORMATION ON PAGE 684

23-CHANNEL CITIZENS BAND TRANSCEIVERS

FCC LICENSE
REQUIRED



White
Stocks Last

\$247.34

A Fanon/Courier
CB & Single Sideband (SSB)
Mobile/Base Transceiver

- Unlimited use of upper/lower sidebands for sending/receiving messages when conventional 23 channels are crowded
- Use as is for 12V mobile operation or as base station with optional power pack



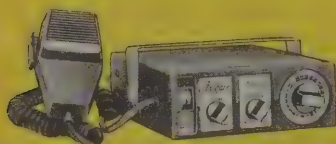
White Stocks Last

\$174.27

No. 5H388

B Fanon/Courier Deluxe
Base CB Transceiver

- IC and FET front end for exceptional sensitivity, reliability and long life
- Digital clock can be set to turn on transceiver



White Stocks Last

\$86.13

No. 5H090

C Fanon/Courier
Mobile/Base CB Transceiver

- Compact unit—can even fit into glove compartment
- Use as supplied for 12V mobile operation or as base station with optional power pack

LIMITED WARRANTY

Fanon/Courier CB transceivers above are warranted against defects in material and workmanship under normal use (rental service excluded) for 90 days, including parts and labor. See Limited Warranty Policy in Index.

FANON/COURIER MODELS INCLUDE THESE FEATURES:

- Full 23 channel operation; No. 5H434 has full Single Side Band (SSB) capability
- 100% solid-state circuitry
- Automatic noise limiter
- 5 Watt power input; No. 5H434, 25 Watt PEP (Peak Envelope Power) input on SSB operation
- Detachable, push-to-talk microphone
- Illuminated S/R/F meter
- Built-in PA function
- Separate volume and squelch controls
- Frequency range: 26.965 to 27.255 kHz

A CB & SINGLE SIDEBAND (SSB)
MOBILE/BASE TRANSCEIVER

Features 23 channel operation plus unlimited use of upper and lower sidebands. Use of single sidebands provides for easier access to reception or transmission of messages when conventional 23 channels are overcrowded, with added input & output power. FET (Field Effect Transistors) front end, lattice crystal filter for SSB operation, mechanical ceramic filter for AM use. Local/distance RF switch, PA/CB control and switchable noise blanker. ± 600 Hz clarifier for optimum voice quality and AM, Upper/Lower sideband switch. Plug-in 13.8V DC connector, negative ground. Transmitter output power: 3.5 Watts on CB/AM operation & 12 Watts PEP on SSB operation. Use as is for 12V mobile operation or as base station with power pack listed below. $2\frac{5}{8}$ H x $7\frac{1}{2}$ W x $9\frac{1}{2}$ D. Fanon-Courier brand (Spartan SSB). Shpg. wt. 7 lbs.

No. 5H434. Retail \$379.95. Was \$262.80. Each
While Stocks Last. **\$247.34**

No. 5H091. 115VAC-to-12VDC Power Pack for converting No. 5H434 above into base station. Shpg. wt. $3\frac{1}{2}$ lbs. Fanon/Courier brand (PS-20A). Retail \$48.25. Each **\$33.20**

B DELUXE BASE CB TRANSCEIVER

Features IC (Integrated Circuit) and FET front end for exceptional sensitivity, reliable operation and long service life. Built-in digital clock can be preset to turn on transceiver. Unit has an illuminated On-the-Air and Transmit window which turns red to indicate the modulation mode; green indicator light illuminates when receiving. Separate tone and delta tuning controls. Operates from 115V AC; power supply cord provided. Power output: 3 watt minimum. Black, vinyl-clad metal cabinet with walnut side panels. $5\frac{5}{8}$ H x $15\frac{1}{4}$ W x $10\frac{1}{4}$ D. Fanon/Courier brand (Conqueror). Shpg. wt. 17 lbs.

No. 5H388. Retail \$249.95. Was \$196.05. Each
While Stocks Last. **\$174.27**

C MOBILE/BASE CB TRANSCEIVER

Compact unit fits easily into any car—even in the glove compartment. Features illuminated S/R/F (Signal/Radio Frequency) power meter for reading signal strength. External speaker jack and illuminated channel selector. Power output: 3 watts minimum. Built-in noise limiter helps screen out ignition noise for clearer reception of signals. Used as supplied for 12V mobile operation or as base station with No. 5H091 115VAC-to-12VDC power pack listed below. Black/silver case. 2 H x $5\frac{7}{8}$ W x $8\frac{3}{4}$ D. Fanon/Courier brand (Fanfare 100). Shpg. wt. $\frac{4}{4}$ lbs.

No. 5H090. Retail \$129.95. Was \$96.88. Each, While Stocks Last. **\$86.13**

No. 5H091. 115VAC-to-12VDC Power Pack for converting No. 5H090 Mobile CB Transceiver listed above into base station. Shpg. wt. $3\frac{1}{2}$ lbs. Fanon/Courier brand (PS-20A). Retail \$48.25. Each **\$33.20**

FOR BASE AND MOBILE COMMUNICATIONS

ALL E.F. JOHNSON MODELS
INCLUDE THESE FEATURES:

- 23 channel operation
- 100% solid-state circuitry
- Automatic noise limiter
- 5 Watt power input
- Built-in PA function
- Separate volume and squelch controls
- Frequency range: 26.965 to 27.255 kHz
- 50 Ohm antenna impedance; 5 watt power input



FCC LICENSE
REQUIRED



While Stocks Last

\$170.24
No. 5H429

D E.F. Johnson Compact
Base CB Transceiver

- Large lighted channel selector and power meter
- Squelch, volume, public address controls
- Automatic gain control keeps both strong and weak signals at proper listening levels

COMPACT BASE CB TRANSCEIVER

Some desktop CB unit is a 23-channel fully automatic 2-way CB base station with highly efficient solid-state circuitry to provide maximum power output. Electronic speech compression provides consistently high level modulation in strong, clear transmission. On receive, a "deep skirt" mechanical filter cuts annoying adjacent channel interference. Automatic gain control keeps both strong and weak signals at proper listening levels. Unit has external speaker jack for remote monitoring or for connecting loudspeaker to built-in public address. Power output: 4 watts maximum at 117V AC or 13.8V DC. Power requirements: 117V AC, or 13.8V DC, negative ground. Attractive wood-grain steel cabinet with gold trim. Measures 6 1/2" H x 11" W x 9 1/4" D. E.F. Johnson brand (D). Shpg. wt. 14 lbs.

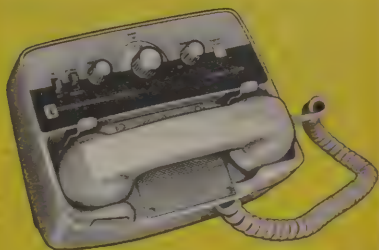
5H429. Retail \$244.90. Was \$183.50. Each, While Stocks Last **\$170.24**

DELUXE MOBILE CB TRANSCEIVER

Deluxe Mobile CB transceiver features unique, telephone-type handset for clear reception despite high background noise, such as busy traffic, instruction noise, etc.

Telephone handset permits private listening without disturbing other passengers. Unit is designed to mount on the transmission hump or under the dashboard. Built-in PA (Public Address) function. On incoming calls, loudspeaker automatically silenced as handset is removed from cradle. Convenient switch allows simultaneous loudspeaker/handset listening if desired. Transceiver also has a front panel switch for simultaneous speaker/handset listening when needed. RF (Radio Frequency) power output: 4 watts maximum. Power requirements: 13.8V DC, negative ground. Unit measures 6 1/2" H x 9" W x 9" D. E.F. Johnson brand (130A). Shpg. wt. 8 lbs.

5H430. Deluxe Mobile CB Transceiver. Retail \$199.95. Was \$149.95. Each, While Stocks Last **\$138.70**



While Stocks Last

\$138.70
No. 5H430

E E.F. Johnson Deluxe
Mobile CB Transceiver

- Telephone-type handset for clear reception despite high background noise
- Mounts on transmission hump or under dash
- Built-in PA function

MOBILE CB TRANSCEIVER

Channel mobile CB transceiver features built-in speech compression for uniformly high-level modulation and maximum range and clarity on transmit. On receive, a mechanical talk filter cuts adjacent channel interference. Voice-activated audio system and acoustically-isolated speaker system gives clearer reception. Illuminated S/R (Signal/Radio Frequency) meter. External speaker jack and ceramic microphone included. Power output: 4 watts maximum. Power requirements: 13.8V DC, negative ground. Compact transceiver measures 2 1/2" H x 9" W x 9 1/4" D. E.F. Johnson brand (123A). Shpg. wt. 5 lbs.

5H431. Mobile CB Transceiver. Retail \$129.95. Was \$110.55. Each, While Stocks Last **\$104.00**



While Stocks Last

\$104.00
No. 5H431

F E.F. Johnson Mobile
CB Transceiver

- Built-in speech compression for extended power and range
- Mechanical talk filter cuts adjacent channel interference when receiving

FOR INFORMATION ON CB RADIO
ANTENNAS, SEE INDEX UNDER
ANTENNAS, CB RADIO

HAND-HELD FANON/COURIER CB TRANSCEIVERS

ALL FANON CB UNITS FEATURE:

- 100% modulation; tuned FET (Field Effect Transistor) front end
- Nos. 5H285 & 5H286 have earphone, battery level meter, adjustable squelch control, AGC (Automatic Gain Control), and require FCC license
- Integrated circuitry, ceramic filter
- Channel 15 crystal installed

A **5-WATT, 6-CHANNEL CB.** Powerful 5 watts of input power. 11 transistors, 13 diodes. Sensitive superheterodyne receiver, tuned RF (Radio Frequency) amplifier. Automatic noise limiter, adjustable volume control. S/R/F (Signal Radio Frequency) meter.

Large 2½" permanent magnet speaker, 54" telescoping antenna. Weatherproof jacks for earphone, external speaker, antenna, microphone. Hand, shoulder straps incl. Uses 10 penlite or 12 "AA" nickel cadmium batteries, not incl. Die-cast aluminum cabinet. 10¾ H x 2 D x 3½" W. Fanon/Courier brand (T909). Wt. 5 lbs.

No. 5H285. 5-Watt Fanon CB Transceiver. Retail \$232.50. Each \$125.40; lots 2.....\$119.13

B **2-WATT, 6-CHANNEL CB.** Superheterodyne receiver, tuned RF (Radio Frequency) amplifier and automatic noise limiter. Transceiver includes jacks for earphone and external telescoping antenna. Uses 8 "AA" or nickel cadmium batteries not included. High-impact styrene cabinet measures 9¾ H x 2 D x 3" W. Fanon/Courier brand. (T700). Shpg. wt. 2½ lbs.

No. 5H286. 2-Watt Fanon CB Transceiver. Retail \$109.50. Each.....\$65.70

C **100-MILLIWATT, 3-CHANNEL CB.** Operate on any 3 of 23 available CB channels. Built-in "Call Tone" signal can be used to alert companion unit. One set of plug-in crystals (channel 15) are factory installed. Includes earphone jack, earphones, telescoping antenna and hand-strap. Each uses 9V battery (not incl.). Plastic case measures 6½ x 1½ x 3". Fanon/Courier brand (T091-2). Shpg. wt. 3 lbs.

No. 5H450. 100-Milliwatt Fanon CB Transceivers. Retail \$69.50. Each.....\$41.70 Pr.



A
**5-WATT
6-CHANNEL**
\$119.13
Lots 2



B

**2-WATT
6-CHANNEL**
\$65.70

LIMITED WARRANTY

Hand-held CB transceivers are warranted against defects in material and workmanship under normal use (rental service excluded) for 90 days, including parts and labor. See Limited Warranty Policy in Index.



C

**100-MW
3-Channel**
\$41.70
Pair

1-TON PORTABLE SERVICE JACK

Compact Hydraulic Jack Lifts Cars or Equipment

Stores in 5 H x 5 W x 26½" L Space

Can be Carried in One Hand. Dayton Brand

Lightweight fully portable jack is designed to lift cars without danger of jack sliding, as vehicle is raised. Lifts cars by their strongest area, the frame, or torque box area of unitized body automobiles. Entire jack base, over 98 sq. inches, supports load and eliminates problem wheeled-base jacks have of rolling or sinking into hot asphalt, gravel, soft ground, mud and snow. Built-in carrying handle. All steel construction, lifts up to 2000 lbs. Lifting height range: 3" to 16½". Built-in overload valve. Removable jack handle stores inside base. Fully lowered unit can be stored inside service vehicle or in rear compartment of tow truck, pick-up or automobile trunk. Red finish. Dayton brand. Shpg. wt. 35 lbs.

No. 6X450. 1-Ton Service Jack. Retail \$101.84. Each.....\$76.38



Dayton

No. 6X450
\$76.38

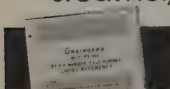
90-Day
Limited
Warranty
See Limited
Warranty
Policy in
Index

Stores in
5" x 5" x 26½" Space

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.



CB BASE STATION & MOBILE ANTENNAS

Mobile Trunk-Groove Antenna. Center-loaded, 48" white fiberglass whip is adjustable for lowest SWR, maximum range. Fits under vehicle trunk lid, leaves no holes. Chrome plated mount has 180° swivel ball for vertical adjustment of antenna. 18' RG58U coax with PL-259 transceiver connector attached. Hustler brand (TGF-27-L). Shpg. wt. 2 lbs.
No. 4H705. Hustler Mobile Trunk-Groove Antenna. Retail \$21.95. Each.....\$17.56

ROOF-MOUNT WHIP

\$14.52

[C]

**4 dB
POWER
GAIN**

[D]

**DUAL
GUTTER MOUNT**

\$29.56

[B]

**BASE
STATION**

\$31.96

[A]

**TRUNK
GROOVE
TYPE**

17.56

[E]

**TRUNK LIP
MOUNT**

\$24.60

[F]

**DUAL
MIRROR MOUNT**

\$33.90

[G]

**MAGNETIC
BASE**

\$22.35

[H]

**VSWR
METER**

\$16.35

[B] Hi-Gain Base Station. Deluxe, omnidirectional, high-performance antenna is business band rated. Gain of greater than 4 dB more than doubles transceiver power. Extremely low radiation angle. Tunable for low SWR of 1.1 to 1 by adjusting antenna length. Any length R-G8 or RG58 feed line may be used. 0.64 wave length for optimum CB performance. 108" radial elements, 19 ft., 103/4" high, 1 1/4" dia. at base. SO-239 coax connector. Heat-treated aluminum construction. Hustler brand (27-JR). Shpg. wt. 8 3/4 lbs.
No. 4H903. Hustler Hi-Gain Base Station. Retail \$39.95. Each.....\$31.96

[C] Deluxe Roof-Mount Whip. 25" center loaded, high efficiency. Fits 3/4" hole on vehicle roof or any flat surface. No soldering, wire trimming or pulling headliner. Stainless steel base spring, adjustable tip rod for lowest SWR. Uniform pattern. Incl. 18' RG58U coax with PL-259 transceiver connector plus in-line coupling located 12" from antenna base. Hustler brand (RTS-27-L). Shpg. wt. 1 1/2 lbs.

No. 4H552. Hustler Deluxe Roof-Mount Whip. Retail \$18.15. Each.....\$14.52

[D] Dual Gutter Mount Antennas. Center-loaded, dual 42" fiberglass whip adjustable for lowest SWR (Standing Wave Ratio), maximum range. Enhances signal radiation pattern, omnidirectional performance of any mobile installation. Fits any size or shape gutters, tubular brackets. Incl. 180° swivel ball joint, impact springs, 17' dual coax phasing harness. Hustler brand (DFG). Shpg. wt. 4 1/4 lbs.

No. 5H435. Hustler Dual Gutter Mount Antennas. Retail \$36.95. Each.....\$29.56

[E] Trunk Lip Mount Center-Loaded Antenna. Securely attaches to side or rear of trunk lid without drilling. Includes 180° swivel for vertical positioning of antenna from any mounting angle. 55" stainless steel antenna has oversize power-pack resonator and adjustable tip rod for lowest SWR. Antenna is removable from mount and incorporates 17 ft. of RG-58/U cable with PL-259 connector. Hustler brand (HQ27M). Shpg. wt. 1 1/2 lbs.

No. 5H448. Hustler Trunk Lip Mount Antenna. Retail \$28.95. Each.....\$24.60

[F] Dual Mirror Mount Center-Loaded Truck & RV Antennas. Two 51" antennas come with stainless steel radiators, oversize power-pack resonators, positive lock-in tip rods and slotted wing-bolt mirror mounts to fit all West Coast style mirrors. 17 ft. dual phasing harness with single PL-259 connector has balanced power feed. Hustler brand (HTM1). Shpg. wt. 4 lbs.

No. 5H449. Hustler Dual Antenna System. Retail \$39.95. Each.....\$33.90

[G] Magnetic Base Mobile Antenna. Adheres firmly to any flat metal surface at highway speeds. No mounting holes or brackets required. Fast placement, take-off and hide-away. Omnidirectional 39" stainless steel whip has shock spring and pre-tuned white ABS plastic encapsulated base load. Attached 16' coax cable and PL-259 connector included. Not for use on vinyl roofs. Breaker brand (10-285). Shpg. wt. 2 lbs.

No. 5H461. Magnetic Base Antenna. Retail \$27.95. Each.....\$22.35

[H] Voltage Standing Wave Ratio (VSWR) Meter. Meter quickly tunes antenna to CB radio for top efficiency. Measures VSWR, percent reflected power and signal field strength. 2 Ft. coax cable with connectors, instructions included. Breaker brand (13-500). Shpg. wt. 2 lbs.
No. 5H462. VSWR Meter. Ret. \$24.95. Ea.....\$16.35

SEE WARRANTY INFORMATION ON PAGE 684

HEAVY-DUTY CORNELL-DUBILIER ANTENNA ROTATORS

Planetary Gear Drive. Ball Bearings. Operate in Weather to —15°F. Support up to 150 Lbs.

Support and turn antenna arrays weighing up to 150 lbs., even in severe weather down to 15° below zero; 525 in./lbs. stall torque. Planetary gear system. Load centered on 12 ball bearings. Heavy, die-cast bell housing provides complete weather protection. 17½ H, 8" diameter. Both ends of rotor accept ¾ to 2½" diameter masts. Hardware included. Complete with 115V, 60 Hz controller which plugs into standard wall outlet, supplies low voltage to rotator. 4-conductor cable, not included, required for connecting controller to rotator.

DIAL-CONTROLLED ROTATOR

Comes with electro-mechanical controller that moves rotator in 6° steps. Turn of dial automatically aims antenna in direction selected. Controller 2½ H, 6¾ W, 4½" D. Cornell-Dubilier brand (AR22R). Shpg. wt. 15 lbs.

No. 4H671. Heavy Duty Antenna Rotator & Dial Control. Retail \$65.95. Each.....\$49.59

PUSHBUTTON-CONTROLLED ROTATOR

Comes with solid-state controller having 5 push-buttons which may be set for any 5 stations, plus dial control for selecting others. Turns antenna in 1° steps. Heavy duty contacts. Controller 8 W, 7½ H, 4" D. Cornell-Dubilier brand (AR33). Shpg. wt. 15 lbs.

No. 4H886. Heavy Duty Antenna Rotator & Push-button Controller. Retail \$105.20. Each.....\$78.90

MEDIUM-DUTY ROTATOR

Remote control dial automatically orients user's antenna toward stations for best reception. Supports and turns arrays weighing up to 50 lbs., even down to 15° below zero. 185 in./lbs. stall torque. Heavy-duty, worm-gear train. Mast turns on bronze thrust bearing. Diecast upper main housing. 12¾ H x 8¾ W. Remote control unit moves antenna in 6° steps and plugs into 115V, 60 Hz outlet; supplies low voltage to rotator. Mounts on ¾ to 2½" diameter mast. Requires 4-conductor cable, not included, to connect control to rotator. Cornell-Dubilier brand (AR-20). Shpg. wt. 11 lbs.

No. 5H289. Retail \$61.85. Each.....\$43.57

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated, to railroad or trucking terminals within the United States (except Hawaii and Alaska), using routing of our choice. Any charges for delivery from terminal must be paid by consignee.

STEEL TOWER KIT

For TV, FM, CB and Ham radio antennas. Assembled tower is 41' 8" high. Kit includes five 7'4" girder sections, one 7'4" pole mast, house bracket, rotor mount and hardware. Easily assembled; each section inserts into the next then bolt together. Girders and pole are 1¼" diameter 16 ga. steel; braces are ¾" diameter 16 ga. steel. All galvanized and zinc coated. Wind load capacity 7.29 lbs./lin. ft. at horizontal pressure of 30 psf on flat surface. Shipped unassembled. American Tower brand (88). Shpg. wt. 144 lbs.

No. 3H241. Steel Tower Kit. Retail \$199.95. Each.....\$128.65

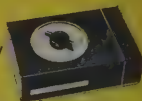
Additional 7'4" Tower Section. Use to increase height of tower listed above, (up to 7 additional sections may be used with proper guying). Instructions included. Shpg. wt. 30 lbs.

No. 3H255. 7'4" Tower Section. Retail \$41.00. Each.....\$25.80



Heavy-Duty
Dial
Controlled
Rotator

\$49.59



Heavy-Duty
Pushbutton
Controlled
Rotator

\$78.90



\$43.57

Medium-Duty
Rotator



TOWER KIT
Less Antenna

\$128.65

With
Hardware

Also Usable

as
Light Tower



FINCO UHF/VHF ANTENNAS FOR TV & FM RADIO



Mounting kit & VHF/UHF splitter
Included with all antennas

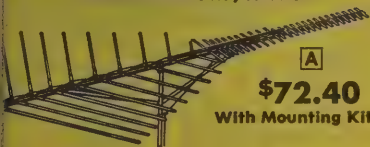
All are for color and black-and-white TV, FM & FM stereo. Frequency-dependent design gives uniform performance on all channels; has extra gain at higher frequencies, where transmission loss is greatest.

All antennas listed have Finco gold corodized finish that protects against weather, yet conducts signals for best reception. Square boom construction, reinforced insulators for added strength.



Mounting kit included with all antennas; 5 ft. mast, (not shown) wall-mount brackets, 50 ft. foam-filled 300 ohm cable, 5 standoff insulators, VHF/UHF splitter.

36 Elements—26 UHF, 10 VHF



\$72.40
With Mounting Kit

20 Elements—12 UHF, 8 VHF



\$53.25
With Mounting Kit

13 Elements—7 UHF, 6 VHF



\$34.25
With Mounting Kit

9 Elements



\$22.60
Mounting Kit Included

EXTRA-LONG RANGE ANTENNA

A Finco's finest, most powerful antenna. 36 elements; 26 UHF, 10 VHF. Range: VHF to 150 miles; UHF to 100 miles; FM to 75 miles. Antenna measures 204" long, 92" wide, has 106" turning radius. Complete with mounting kit. Finco brand (CSD3KW-5). Shpg. wt. 18 lbs.

No. 4H796. Extra-Long Range Antenna. Retail \$132.45. Each. **\$72.40**

LONG RANGE ANTENNA

B Powerful, moderately priced antenna for weak signal areas. 20 elements; 12 UHF, 8 VHF. Range: VHF to 125 miles; UHF to 75 miles; FM to 70 miles. Antenna measures 138½" long, 92" W, has 80" turning radius. Complete with mounting kit. Finco brand (CSC2KW-5). Shpg. wt. 14 lbs.

No. 4H887. Long-Range Antenna. Retail \$97.30. Each. **\$53.25**

NEAR FRINGE ANTENNA

C Low-priced antenna for reception in normal and near-fringe signal areas. 13 elements; 7 UHF, 6 VHF. Range: VHF to 100 miles; UHF to 50 miles; FM to 60 miles. Antenna measures 93" L, 92" W, has 48" turning radius. With mounting kit. Finco brand (CSB1KW-5). Wt. 11 lbs.

No. 4H795. Near-Fringe Antenna. Retail \$62.45. Each. **\$34.25**

CITY-SUBURBAN ANTENNA

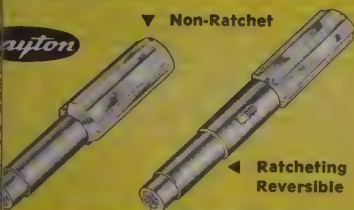
D Priced low, yet provides good reception in normal signal areas. 9 elements, operating electrically as 3 low band, 9 high band and 6 UHF elements. Range: VHF to 60 miles; UHF to 35 miles; FM to 40 miles. Antenna measures 55" L and 100" W, has 24" turning radius. Antenna comes complete with mounting kit. Finco brand (1363KW-5). Shpg. wt. 10 lbs.

No. 5H303. City-Suburban Antenna. Retail \$41.00. Each. **\$22.60**

SELF-ADJUST NUT DRIVER

Automatically Fits Hex Head Nuts up to 7/16"
Available in Ratcheting & Non-Ratcheting Types

Automatically selects proper spring-loaded socket needed to turn hex head nuts, bolts or screws 1/4 through 7/16". Hollow core construction fits over bolt extensions up to 1½" long. Dayton brand.



Type	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
Non-Ratcheting	4X813	\$4.89	\$3.42	\$3.18	3 os.
Ratcheting	4X957	7.94	5.56	5.16	7 os.

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

SEE WARRANTY INFORMATION ON PAGE 684

1/2 and 1-TON ELECTRIC CHAIN HOISTS

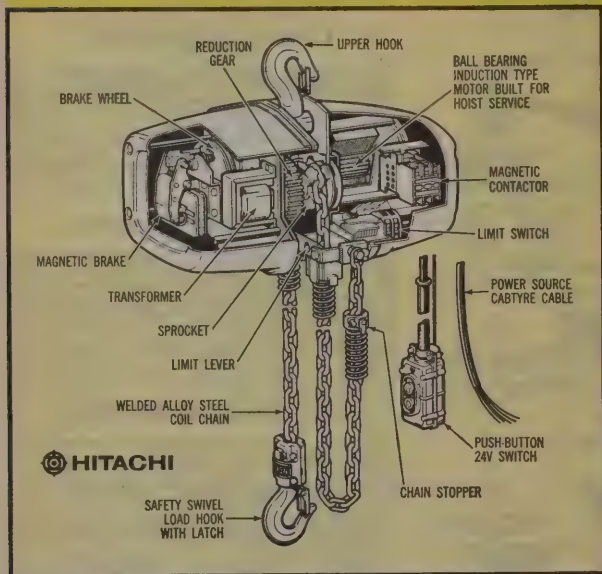
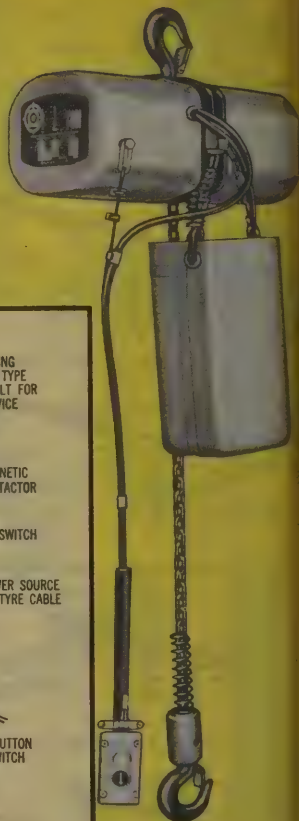
1 or 3-Phase Motors. Automatic Upper & Lower Limit Switches. Latch-Type Safety Hooks



- Quality Construction, Advanced Design
- One Year Limited Warranty Parts & Labor. See Limited Warranty in Index
- A Network of Qualified Service Facilities
- Prepaid Freight on Shipments of 300 Lbs. and Over

1/2-TON HOIST
\$409.30

1-TON HOISTS
\$474.75



Industrial electric chain hoists safely handle most overhead material handling jobs. Dependable electromagnet brake provides positive load control and eliminates danger of dropping load if power fails. Automatic, pre-set upper and lower limit switches prevent over travel in either direction. Spring action, safety swivel load hook is standard on all models. Pushbutton operates at 24V for added operator safety. Rugged frame is steel plate construction. Mo-

tors are ball bearing, induction type, 60 Hz, totally enclosed in steel case to meet rigid requirements for hoist service. Precision ball bearings support shaft ends. Welded alloy steel chain provides 10 ft. lift. Chain stores in plastic bucket (included) when not fully lowered. 1/2-ton hoist requires 19 1/2" min. headroom; 1-ton models, 19 1/4". Hook-type upper mounting for easy relocation. 16 ft. power supply cord. 8 1/2 ft. pushbutton cord. Orange enamel finish.

Capacity Tons	Housing Dimensions	Chain Lift	Lift Speed	Motor HP	Motor Phase	Volts* 60 Hz	Mfr's Model	Stock No.	Retail	Each	Ship Wt.
1/2	16" L x 11" W	10 ft.	13.5 Ft./Min.	1/2	1	115/230	1/2GS1	32301	\$481.50	\$409.30	68
1	19" L x 14" W	10	9 Ft./Min.	3/4	1	115/230	1GS1	32302	558.55	474.75	89
1	18" L x 14" W	10	18 Ft./Min.	1 1/2	3	230/460	1GS	32303	558.55	474.75	79

(*) Factory wired at lower voltage. Transformer reconnects easily for use at higher voltage.

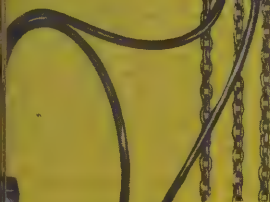
Replacement chain and control kits to modify Hitachi hoists for 15, 20 or 25 ft. lift are available. Write to Customer Service Dept., Chicago giving stock number of hoist, length of chain lift and length of pushbutton control cord desired.

Dayton 1/2, 1 & 2 TON ELECTRIC CHAIN HOISTS

Made in USA. Dual Voltage, Single or 3-Phase Motors. Adjustable Limit Switches. Safety Hooks
Hoists Supplied with Standard 10 ft. Lift; Longer Chain Lifts Available

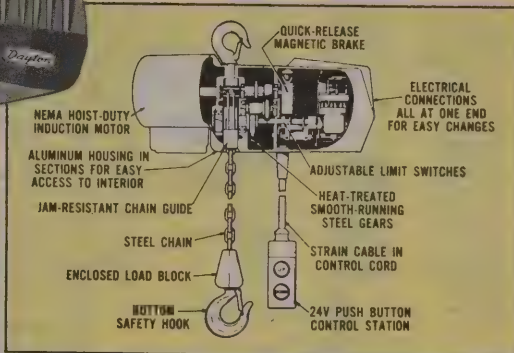
Year Limited Warranty
s & Labor. See Limited
ranty Policy In
X

1/2 and 1-ton
models feature
single chain lift



2-ton models equipped
with double chain lift

1/2-TON MODEL 1-TON MODELS 2-TON MODELS
\$454.75 \$527.50 \$636.65



Industrial quality hoists have construction features usually found only in more expensive models. Totally enclosed motor meets rigid hoist service requirements. All wires identified; quick-connect terminals for easy voltage changes. Heat treated smooth running gears. Lifetime lubricated bearings. Hoists come with welded alloy steel chain, load block and top and bottom hooks. 24V push button control station.

GENERAL SPECIFICATIONS

Max. Cap. Tons	Stock No.	Lift Speed, Ft./Min.	Motor HP	Phase	Volts*	Amps at Low Voltage	Min. Hooks	Housing Dimensions W D L
1/2	3Z370	16	1/2	1	115/230	9.8	18"	7 1/4" 8 3/4" 21 3/4"
1	3Z372	16	1	1	115/230	16.0	18	7 1/4" 8 3/4" 22 1/2"
1	3Z373	16	1	3	230/460	3.3	18	7 1/4" 8 3/4" 21 3/4"
2	3Z374	8	1	1	115/230	16.0	22	7 1/4" 8 3/4" 22 1/2"
2	3Z375	8	1	3	230/460	3.3	22	7 1/4" 8 3/4" 21 3/4"

(*) Single-phase hoists are wired for 115V, 60 Hz operation; 3-phase hoists for 230V, 60 Hz operation. Hoist transformer easily re-connects for use at 230V AC on single-phase or 460V AC on 3-phase.

num city ns	Motor HP	Phase	Volts 60 Hz	Chain Lift, Ft.	Control Cord Length in Ft.		Stock No.	LONGER CHAIN LIFT and PUSHBUTTON CONTROL CORD			Add'l. Shpg. Wt. per Ft.		
								15 Ft. Lift Each	20 Ft. Lift Each	25 Ft. Lift Each			
2	1/2	1	115/230	10	6	3Z370	\$535.00	\$454.75	76	\$479.75	\$504.75	\$529.75	1
	1	1	115/230	10	6	3Z372	620.60	527.50	96	552.50	577.50	602.50	1
	1	3	230/460	10	6	3Z373	620.60	527.50	79	552.50	577.50	602.50	1
	1	1	115/230	10	6	3Z374	749.00	636.65	107	676.65	716.65	756.65	2
	1	3	230/460	10	6	3Z375	749.00	636.65	94	676.65	716.65	756.65	2

Hoists are supplied with standard 10 ft. chain lift. If longer chain lift is desired (15, 20 or 25 ft. lift), order from nearest Grainger address, allow 4 weeks for shipment. Additional price per foot of chain lift in excess of standard 10 ft. lift: 1/2 & 1 ton—\$5.00 per ft.; 2 ton—\$8.00 per ft. Price includes longer chain lift and pushbutton control cord which measures 4 feet shorter than chain lift.



DAYTON COIL CHAIN CONTAINERS

For use with above hoists to keep surplus chain away from work area. Container is suspended from bottom of hoist so it doesn't interfere with work.

Bucket Height	Recommended For Use With:			Stock No.	Retail	Each	Shpg. Wt.
	Bucket Height	Hoist Capacity	Chain Lift In Feet				
11 1/2"	11 1/2"	1/2—Ton 1—Ton 2—Ton	10-15-20-25 10-15-20 10	2Z618	\$14.50	\$12.50	3
18 1/2"	18 1/2"	1—Ton 2—Ton	25 15	2Z619	15.30	13.50	4
27"	27"	2—Ton	20-25	2Z620	36.00	29.58	5

SEE WARRANTY INFORMATION ON PAGE 684

1/4 TON ELECTRIC WIRE ROPE HOIST



- STANDARD 10 FOOT LIFT
- LIFT SPEED 10 FEET PER MINUTE
- LATCH-TYPE SAFETY HOOKS
- UL LISTED

20 Ft. of
1/8" Wire
Rope Provides
10 Ft. Lift

1/6 HP, 115V, 60 Hz
3 Amp, ball-bearing,
permanent split-capacitor
3300 RPM motor

Dayton

\$208.70

6 Ft. Control Cord

90-Day
Limited
Warranty
See Limited
Warranty
Policy in
Index

Full Load
Lifting
Speed of
10 Ft. per
Minute

Pushbutton
Control Switch

A compact, intermittent-duty, multi-purpose hoist for quick, accurate lifting and spotting of dies, castings, heavy parts, assemblies and other loads up to 500 lbs. Standard 1/8" steel wire rope provides hoist with a 10 foot lift. Latch type safety hooks top and bottom. Six foot long control cord has 3-position Up-Off-Down push button control switch. Upper limit switch protects unit from over-travel in "up" direction. Disc brake. Unit has rapid full load lifting speed of 10 ft. per minute. Totally enclosed 1/6 HP ball bearing, permanent split capacitor, 3300 RPM motor, 115 volts, 60 Hz, 3 amps, 10% duty cycle (six minutes "on" time per hour), and maximum 10 motor starts per hour. Furnished with 12" 3-conductor cord set and detailed operating instructions. Drum contains 20 ft. of 1/8" standard wire rope. Minimum distance between hooks 13 3/4". Housing dimensions 6 W x 4 1/2 L x 12 3/4" H. Dayton brand. UL listed. Shpg. wt. 22 lbs.

No. Z2668. Dayton 1/4 Ton Electric Hoist. Retail \$245.50. Each **\$208.70**

FREE WHEELING TROLLEYS for HOISTS

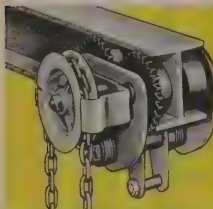
Low cost, low headroom trolleys for use with electric and manual hoists. Rugged pressed steel wheels have carburized treads and run on ball bearings. Sideplates extend beyond wheels as bumpers, adjust to I-beam flange. 1 W x 1 1/4" H opening for hoist hook. Dayton brand.



Capacity Tons	Fits Standard I-Beam		Min. Radius of I-Beam Turning Curve	Stock No.	Retail	Each	Shpg. Wt.
	Lbs.	Vert. H Max. W					
1/2	1000	4-10"	4.68"	22615	\$44.75	\$38.04	19
1	2000	5-12	5.00"	22616	60.30	51.26	34
2	4000	6-18	6.00"	22617	82.15	69.83	41

GEARED TROLLEYS for HOISTS

Units have 4 precision ball bearing wheels, 2 free wheeling and 2 geared for easier and more accurate loading, unloading and spotting of loads. Geared wheels mesh with a pinion driven by a wheel and endless hand chain suspended 10 ft. Hand chain wheel moves in 5-to-1 ratio with geared trolley wheels. 1-ton unit accepts hoist top hook up to 1 1/16" wide. 2-ton model, up to 1 3/16" wide. Vital brand.



Capacity Tons	Fits Standard I-Beam Vert. H Max. W	Min. Radius of I-Beam Turning Curve	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
1	4-10" 5.00"	51"	0510	22666	\$91.95	\$78.16	35
2	5-16 6.00"	59	1520	22667	139.30	118.41	57

1/2 to 2 TON MANUAL HOISTS

Compact and Lightweight for Wide Variety of
Lifting, Lowering and Spotting Operations



CM HOIST

No. Z2895

\$114.85

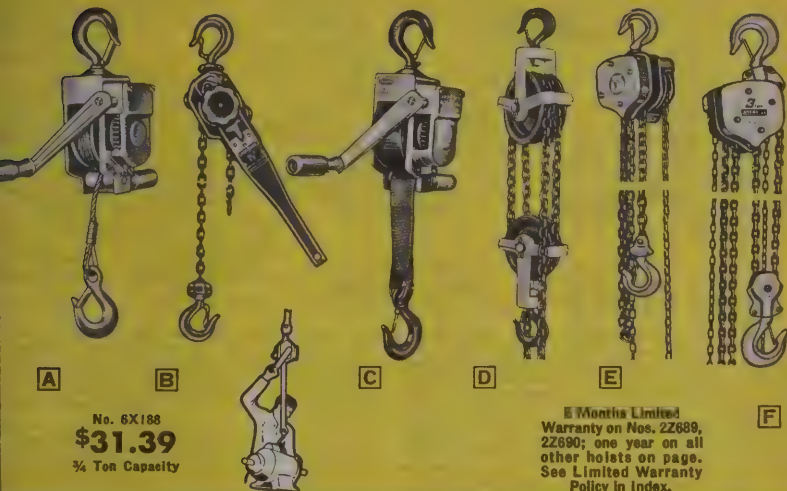
Hand operated chain hoists are easy to use and suited for maintenance and general lifting jobs. Compact hoists have less size and weight than other hoists in their class. All models have steel frame and covers, steel gears, forged steel hoist hangers, latch type steel upper and lower hooks, and alloy steel load chain. Load and hand chains furnished with each unit provides 8-foot lift. Hoists manufactured in accordance with ANSI Code B30.16 for Overhead Hoists and existing OSHA regulations. CM Hoist brand.

MANUALLY OPERATED HOISTS DIMENSIONS AND PRICES

Capacity In Tons	Chain Pull/ Lift Load	Shortest Distance Between Hooks	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
1/2	45 lbs.	12 3/4 inches	2502	22895	\$128.00	\$114.85	20
1	60	14	2504	22896	153.00	136.75	28
2	72	18 3/8	2506	22897	254.00	227.30	54

1/2 TO 5 TON MANUALLY OPERATED HOISTS

Ratcheting, Winch & Gear Chain Types. Sling & Chain Lift. Latch-Type Safety Hooks



No. 6X188

\$31.39

¾ Ton Capacity

6 Months Limited

Warranty on Nos. 22689, 22690; one year on all other hoists on page. See Limited Warranty Policy in Index.

These compact, portable hoists handle a variety of lifting jobs in farm, construction, automotive and other industries.

RATCHET-CHAIN HOISTS—Ratcheting lever operates in any position. Handles pulling, stretching and tightening jobs as well as lifting work. Stroke handle operates in close quarters. Provides accurate control over load placement. Built on treated steel construction. All housings ride on needle bearings. Air-tight brake is load secure. Ratcheting handle has free-wheeling device, keeps bottom hook at desired height when moving load. High test alloy link for maximum safety. Kito brand.

CHAIN CABLE & WINCH SLING HOISTS—These have worm gear drive construction with permanently lubricated Oilite bronze and ball bearings. Forged steel load and swivel top

hooks. Cable hoist has 3/4" x 12' aircraft cable, sling hoist has 1 3/4" x 12' nylon web sling. Aluminum-alloy housing. Dayton brand.

DIFFERENTIAL CHAIN HOISTS—Pull on continuous hand chain causes lower hook assembly to raise or lower. Precision load chain automatically supports load at any point. Hoist has cast iron sheaves, aluminum alloy yokes, forged safety latch hooks. 1/2 ton model has 26 ft. total amount of chain; 1 ton unit, 30 ft. Topper brand.

GEAR CHAIN HOISTS—Hoist operates as pull is exerted on hand chain. Triple spur-gears cause load chain and hook to raise or lower. Reinforced steel gears; ball bearing load sheave. Load chain stops and self-brakes, when pull on hand chain stops. Safety latch hooks. 3 and 5-ton models have ball bearing swivel lift hook. Vital brand.

DIMENSIONS AND PRICES FOR MANUAL WINCHES

Type	Capacity, Tons	Lift, Feet	Hook Opening, in.	Min. Between Hooks	Manual Pull Req'd.*	Dimensions W	H	D	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Vinch-Cable	3/4	12	1"	15 1/2"	50 lbs.	5 1/2"	11"	4 1/2"	—	6X188	\$48.29	\$31.39	8 1/2
Ratchet-Chain	3/4	5	1	11 1/2"	51	4 1/2"	17 1/2"	5 1/2"	LS-197	22782	118.80	95.05	17
Ratchet-Chain	1 1/2	5	1 1/2	14 1/2"	61	5 1/2"	24"	6 3/4"	LB015	22783	152.65	122.14	26
Vinch-Sling	3/4	12	1	15 1/2"	50	5 1/2"	11"	4 1/2"	—	22096	48.29	31.39	8 1/2
Differential Chain	1/2	10 1/2	3/8	21 1/2"	120	7 1/2"	22 1/2"	4"	621	22689	\$75.34	\$52.74	27 1/4
Chain	1	11 3/4	3/8	28 1/2"	195	7 1/2"	28 1/2"	5"	623	22690	105.84	74.09	47
Gear Chain	1/2	10	1 1/2	12 3/4"	52	7 1/2"	8 1/2"	9 3/4"	L-1 1/2	22633	94.05	65.84	29
Gear Chain	1	10	1 1/2	13 3/4"	66	7 1/2"	12"	6 1/2"	L-1	22554	111.75	78.23	49
Gear Chain	2	10	1 1/2	17 1/2"	85	9 3/4"	14 1/2"	7 1/2"	L-2	22555	183.75	128.63	68
Gear Chain	3	10	1 1/2	21 3/4"	85	10 3/4"	15"	7 1/2"	H2-3	22634	276.15	193.31	75
Gear Chain	5	10	2"	24 3/4"	95	12 1/2"	28"	7 1/2"	H2-5	32472	471.00	329.70	120

*Manual pulling force required in pounds to lift capacity load.



24 FT. NYLON WEB SLING FOR HOISTS

\$11.42

Lots 3

Ideally suited for use with above hand-operated hoists to handle bulky crates, skids, boats and other large items. 24 ft. x 1 3/4" nylon web won't kink, fray or scratch material handled. Recommended for loads up to 2,000 lbs. as a choker; 5,000 lbs. as a basket. Leather-reinforced "eyes." Wisco brand. Shpg. wt. 1 1/2 lbs.

No. 22097. 24-Ft. Web. Sling. Retail \$18.50. Each \$12.03; lots 3.....\$11.42

SEE WARRANTY INFORMATION ON PAGE 684

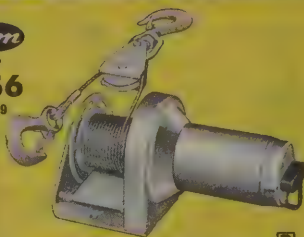
COMPACT 12 VOLT DC POWERED WINCHES

For Intermittent-Duty Service. Use for Hauling and Pulling Loads. Load Rated at 750 to 1500 Pounds. Fully Reversible. Permanently Lubricated and Sealed Gearbox. Galvanized Cable Included



A
6/10 HP Winch No. 6X189
1½ HP Winch No. 6X190

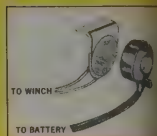
Dayton
6/10 HP
\$93.56
No. 6X189



B
90 DAY
LIMITED WARRANTY
See Limited Warranty
Policy in Index

1½ HP Winch
with Pulley Block
No. 6X191

Winch May Be
Operated up to
10' Away From
Motor



No. 6X192
Remote Control
Kit

12 Volt DC powered winches can be mounted horizontally, vertically, right or left side, on a stand or truck frame. Units come in three models; can be used to load machinery, trucks, boats, farm implements and handle pulling jobs wherever a 12 volt DC auto or truck battery is available for power. Units are recommended for intermittent-duty operation for long life and dependable performance. Winches have simple differential planetary gearing that provides 123:1 reduction that is fully reversible and has the ability to stop and lock instantly. Sun and planetary gears are ½" thick steel, roll on hardened chromium ball bearings. Gearbox is permanently lubricated and sealed. Motor, gear-box and drum are mounted on ¼" steel frame.

Three-way, Load-Off-Unload, switch brings power to the motor wherever winch is installed. Returning switch to Off-position stops and locks cable instantly. Switch is permanently attached to a power harness cord set that has 25 ft. positive, 8 ft. negative leads and automatic resetting circuit breaker. Optional remote control kit (listed right, order separately) enables winch to be operated from up to 10 feet away or from truck cab for bumper-mounted winch. ¾" hardened steel locking stud can be engaged manually to lock drum to the frame.

All models come with switch, power harness, ¾" mounting bolt kit, emergency hand crank, galvanized aircraft cable, and forged safety latch hook. Dayton brand.

6/10 HP Winch, No. 6X189—Winch is powered by 6/10 HP, 12V DC permanent magnet, 5000 RPM motor, sealed in watertight housing. See Specifications and Ratings table below for maximum rolling load capacity. Cable is ½" diameter x 20 ft. long, with forged safety hook. Color: red.

1½ HP Winch, No. 6X190—Winch is powered by 1½ HP, 12V DC permanent magnet, 5000 RPM motor, sealed in watertight housing. See Specifications and Ratings table below for maximum rolling load capacity. Comes with galvanized aircraft cable ½" diameter x 25 ft. long with safety hook. Color: red.

1½ HP Winch with Pulley Block, No. 6X191—Uses line hook plus pulley block hook assembly for double line usage. Winch is powered by 1½ HP 12V DC permanent magnet, 5000 RPM motor. Unit comes with forged pulley, block and 45 ft. of ½" aircraft cable. Winch is intended for double-line use only. See Ratings table below for maximum rolling load capacity. Color: red.

REMOTE CONTROL KIT. For winches No. 6X189, 6X190, 6X191. Control kit lets user operate winch from dash of truck or other convenient location up to 10' away from winch. Kit includes remote switchplate and 1 pair 10 ft. 8-gauge winch motor wires. Switchplate attaches to standard switch supplied with winch. Wt. 2 lbs. **No. 6X192.** Remote Control Kit. Retail \$114.95. Each \$7.95.

SPECIFICATIONS AND CAPACITY RATINGS FOR POWER WINCHES

Fig.	Stock No.	Maximum Weight of Rolling Load on % Incline			Manpower Equivalents†	Load* Capacity	Full Load Winch Speed	Gear Ratio
		10%	30%	50%				
A	6X189	4000 lbs.	2100 lbs.	1500 lbs.	9	750 lbs.	10 FPM	123:1
A	6X190	5000	2600	1850	11	1000	13	123:1
B	6X191	6700	3500	2500	17	1500	10	123:1

(†) An average man can exert 90 lbs. of steady pull for brief periods. This equivalent indicates winch capacity measured against this index.

(*) Vertical Lift Rating—Not for use as a hoist, or in overhead-load applications.

12V DC POWER WINCHES—DIMENSIONS AND PRICES

Fig.	Voltage	—Dimensions—			Cable-Hook Assembly† Dia. x Long	No. Hooks	Stock No.	Retail	Each	Sh. Wt.
		H	W	L						
A	12V DC	6"	6"	12"	½" x 20'	1	6X189	\$144.55	\$93.56	1 lb.
A	12V DC	6	6	13	½" x 25	1	6X190	174.75	113.28	1 lb.
B	12V DC	6	6	13	½" x 45	2	6X191	179.15	116.19	2 lb.

(†) All models have maximum cable capacity of 75 feet—¾" size or 125 feet—½" cable size (not included). Size and length of cable included with each winch is indicated in table.

You Can Get Same-Day Shipping Service on Most Items in this MotorBook

2000 & 3500 LB. CAPACITY 12 VOLT DC WINCHES

Operate from Car or Truck Battery, or Manually by Hand Crank. For Intermittent Duty Service

able units mount on front or rear bumper, ball hitch, truckbed, or any flat surface. Use to pull
 icle itself from mud, sand, or snow; assisting other stranded vehicles; clearing logs, stones or
 ris from roadways and fields. Cable is free wheeling out; brake/clutch powered in. Single knob
 releases clutch and brake. Winch can be controlled remotely from up to 9 feet away using
 hand-held pushbutton control cord (included); pushbutton switch can be mounted on dash-
 board of vehicle for convenience. Brake holds
 load when power is switched off, or if power
 fails. Units operate manually by hand crank (in-
 cluded) in emergencies. Both models have clutch
 mounted on roller and needle bearings, weather
 resistant high impact housing, 50-ft. steel cable
 assembly with safety latch hook, hand crank,
 9-ft. pushbutton remote control cord with dash-
 board clip, wires, adapter for ball hitch installa-
 tion and instructions. Shipped ready for mount-
 ing and power connections.



Day Limited
 ts & Labor
 rrranty. See Limited
 rrranty Policy in Index.

Dayton



PERFORMANCE AND CAPACITY RATINGS FOR POWER WINCHES

Capacity* Pounds	Stock No.	Maximum Weight of Rolling Load on % Incline			No Load Speed	Gear Ratio	Rated Load Amp. Draw @ 12V
		10%	30%	50%			
2000	2Z893	10,000 lbs.	5,000 lbs.	2,598 lbs.	20 FPM	225:1	40
3500	2Z894	17,500	8,750	4,545	12	450:1	70

12V DC POWER WINCHES DIMENSIONS AND PRICES

Capacity Pounds	H	Dimensions		L	Cable† Included	Stock No.	Retail	Each	Shpg. Wt.
2000	7 1/2"	12"	12"	9 3/4"	3/4" x 50 ft.	2Z893	\$259.50	\$181.65	34 1/2
3500	7 1/2"	12"	12"	9 3/4"	1/2" x 50	2Z894	299.50	209.65	41

Vertical Lift Rating—Not for use as a hoist, or in overhead-load applications.

Max. Winch Drum Capacity: No. 2Z893—75 ft. x 3/4" cable; No. 2Z894—75 ft. x 1/2" cable (not included).

8, 12 & 16 FT. BATTERY JUMPER CABLES



A
 8 FOOT CABLES
 OF 8-GAUGE COPPER

\$3.25 Lots 6



B
 8 & 12 FOOT CABLES
 OF 6-GAUGE COPPER

\$7.11 Lots 6



C
 16 FOOT CABLES
 OF 4-GAUGE COPPER

\$22.18 Lots 6

ery jumper cables consist of one set of two
 ated cables and clamps for transferring
 ical charge from one battery to another.
 r coded grips reduce crossing battery
 ons. Spring loaded clamps make positive
 act with top or side terminal batteries. Car-
 and.

A 8 Ft. Cables of Stranded 8-Gauge Copper
 black insulated jacket; remains flexible to
 F. 100 amp. copper plated clamps have rub-
 insulated grips. For 6 and 12V electrical
 ms.

B 8 and 12 Ft. Cables of Stranded 6-Gauge
 Copper. Black twin conductor rubber insulated
 jacket remains flexible to -30°F. 100 amp. cop-
 per plated clamps have rubber insulated hand
 grips. For 6 and 12V systems.

C 16 Ft. Cables of 4-Gauge Stranded Copper.
 Bright orange twin conductor jacket remains
 flexible to -30°F; is impervious to acid, oil and
 grease. 400 amp. steel clamps have copper
 contacts; grips completely insulated with shock-
 proof polyvinyl chloride (PVC). Heavy duty con-
 struction. For 6, 12, 24 and 48V systems.

Copper Cable Gauge	Length	Clamps	Mfrs. Model	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
8	8 Feet	Steel	108B	1W702	\$4.46	\$3.57	\$3.25	2 1/2
6	8	Steel	608B	1W923	9.74	7.79	7.11	4 1/2
6	12	Steel	612B	1W924	13.50	10.80	9.88	6
4	16	Steel with Copper Contacts	ST-164	2W049	30.75	24.60	22.18	9

SEE WARRANTY INFORMATION ON PAGE 684

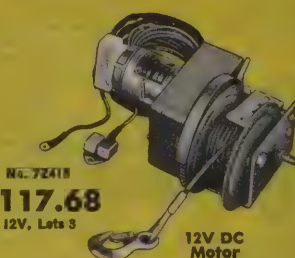
AC AND DC POWERED LIGHT-DUTY WINCHES

Vertical Lift of 900 to 2500 Lb. Loads. Intermittent-Duty. Driven by 115VAC or 12VDC Motors



115V AC Motor
A

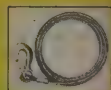
No. 72417
\$127.86
115V, Lots 3



12V DC Motor
B

No. 72418
\$117.68
12V, Lots 3

90 DAY
LIMITED WARRANTY
See Limited Warranty Policy
in Index



No. 22604, Cable/Hook
Assembly Incl. w/
Nos. 72417 and 72418



No. 22605, Cable/Hook
Assembly Incl. w/
Nos. 72419 and 72420

Winches are suitable for moving vehicles, farm equipment, boats, etc., including jobs in forestry and rescue work. Units have hardened steel gears, permanently lubricated sleeve bearings. Winches are rated at 15 starts and stops per hour and can be hand cranked by placing winch handle (included) on second drive shaft and putting winch ratchet and gear release in neutral position. Gear train has free-wheeling position for fast cable release. Ratchet lever may be set to lock load at any position during loading operation. Hand brake must be used to hold load when lever is in neutral position and when power is off.

Cable mounts securely through gear side plate. All $\frac{3}{16}$ " x 25 ft. cable-hook assemblies include rustproof cable and safety hook. All $\frac{1}{2}$ " x 50 ft. cable-hook assemblies include rustproof cable, plus pulley-block hook assembly and safety hook for single or double-line use. Dutton-Lainson brand.

115VAC, Electric Winch, 60 Hz has field-wound motor with built-in Load-Off-Unload switch spring-loaded to automatically return to neutral. Draws 3 amps—No load, 10 amps—Full load. 10 ft. 3-conductor cord set.

12VDC, Electric Winch, designed for battery operation. Car wiring harness, switch, 80 amp circuit breaker and 25 ft. lanyard for remote control operation included. Reversible, permanent magnet motor has Load-Off-Unload switch which automatically returns to neutral.

CABLE ASSEMBLIES

No. 22604. $\frac{3}{16}$ " x 25 ft. galvanized aircraft cable including safety latch hook. Shpg. wt. 2 lb. Retail \$17.40. Each \$11.31; lots 3.....\$10.

No. 22605. $\frac{1}{2}$ " x 50 ft. galvanized aircraft cable with safety latch hook and pulley-block-hook assembly included. Shpg. wt. 8½ lbs. Retail \$42.20. Each \$27.41; lots 3.....\$25.

WINCH CAPACITIES AND SPECIFICATIONS

Fig.	Stock No.	Maximum Weight* of Rolling Load on % Incline			Vertical Lift* in Lbs.	Cable-Hook Assembly† Dia. x Lgth.	No. Hooks	Full Load Winch Speed	Gear Ratio	Drum Hub Dia.
		10%	30%	50%						
A	72417	4500	2300	1700	900	$\frac{3}{16}$ " x 25 ft.	1	7	209:1	1½"
B	72418	8000	4200	3000	1600	$\frac{3}{16}$ " x 25	1	7	209:1	1½"
A	72419	12000	6300	4500	1250/2500	$\frac{1}{2}$ " x 50	2	3½	417:1	1½"
B	72420	12500	6500	4700	1250/2500	$\frac{1}{2}$ " x 50	2	3½	417:1	1½"

WINCH DIMENSIONS AND PRICES

Fig.	Voltage	Dimensions			Ratchet	Mfr's. Model	Stock No.	Each	Lots 3	Shpg. Wt.
		H	W	L						
A	115V AC	7"	15"	10"	Fwd., Rev.	DLE3200AC	72417	\$137.35	\$127.86	30
B	12V DC	7	13	10	Fwd., Rev.	DLE3200DC	72418	126.43	117.68	30
A	115V AC	7	15¾"	11¾"	Fwd., Rev.	DLE7000AC	72419	167.27	157.31	30
B	12V DC	7	13¾"	11½"	Fwd., Rev.	DLE7000DC	72420	158.35	147.13	30

(*) Maximum rated capacity in lbs. Single hook models rated with single line; double hook models with double line. NOT for use as a hoist or in overhead load applications. For pulling boats onto boat trailers, use 1600 lb. winch for boats weighing up to 3200 lbs. 1250/2500 lb. winch for boats up to 7000 lbs.

(†) Maximum Reel Cable Capacity: Nos. 72417, 72418 take up to 96 ft., $\frac{3}{16}$ " cable and 71 ft., $\frac{1}{8}$ " cable; Nos. 72419, 72420 take up to 128 ft., $\frac{3}{16}$ " cable and 95 ft., $\frac{1}{8}$ " cable. See above for cable size supplied with each model.

NOTE: Power unit, winch and cable kit are shipped separately—can be assembled in minutes.

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



MANUALLY OPERATED LIGHT-DUTY WINCHES

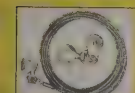
Vertical Lift of 1000 to 2500 Lbs. Hardened Steel Drive Gears



No. 22601

\$10.60 Lots 3

No. 22604 Cable/Hook Assembly incl. with Nos. 72414, 72415



No. 22605 Cable/Hook Assembly incl. with No. 72416

90 DAY LIMITED WARRANTY
See Limited Warranty Policy in Index

Useful for a wide variety of applications including movement of heavy-wheeled equipment, machinery vehicles, boats, farm implements, etc. All models have hardened steel drive gears, stainless steel ratchet spring, permanently lubricated sleeve bearings, and copper-brazed gear and arc welded reel assemblies.

Cable mounts securely through gear side plate. All $\frac{3}{16}$ " x 25 ft. cable-hook assemblies include rustproof cable and safety hook. All $\frac{1}{2}$ " x 50 ft. cable-hook assemblies include rustproof cable, pulley-block hook assembly and safety hook for single or double-line use. Maximum winch reel capacity for Nos. 22601 and 72414 is 70 ft., $\frac{3}{16}$ " cable and 52 ft., $\frac{1}{2}$ " cable; Nos. 22602 and 72415 is 96 ft., $\frac{3}{16}$ " cable and 71 ft., $\frac{1}{2}$ " cable; Nos. 22603 and 72416 is 128 ft., $\frac{3}{16}$ " cable and 95 ft., $\frac{1}{2}$ " cable. See table below for size cable included with winches. Dutton-Lainson brand.

CABLE ASSEMBLIES

No. 22604. $\frac{3}{16}$ " x 25 ft. galvanized aircraft cable including safety latch hook. Shpg. wt. 2 lbs. Retail \$17.40. Each \$11.31; lots 3.....**\$10.45**

No. 22605. $\frac{1}{2}$ " x 50 ft. galvanized aircraft cable with safety latch hook and pulley-block-hook assembly included. Shpg. wt. 8½ lbs. Retail \$42.20. Each \$27.41; lots 3.....**\$25.31**

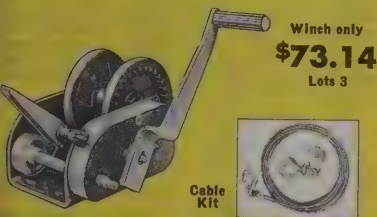
Vertical Lift* in Lbs.	Stock No.	Maximum Weight* of Rolling Load on 10%	30%	50%	Cable-Hook Assembly Dia. x Lgth.	No. Hooks	Full Load Winch Speed	Gear Ratio	Drum Hub Dia.	Type Brake
1000	22601	5000	2600	1850	Not Incl.	—	10 FPM	3.9:1	$\frac{7}{8}$ "	—
1000	72414	5000	2600	1850	$\frac{3}{16}$ " x 25'	1	10	3.9:1	$\frac{7}{8}$ "	—
1600	22602	8000	4200	3000	Not Incl.	—	7	8.5:1 & 5.5:1	$1\frac{1}{8}$ "	—
1600	72415	8000	4200	3000	$\frac{3}{16}$ " x 25'	1	7	8.5:1 & 5.5:1	$1\frac{1}{8}$ "	—
1250/2500	22603	12500	6500	4700	Not Incl.	—	$3\frac{1}{2}$	17:1 & 5.5:1	$1\frac{1}{8}$ "	Hand
1250/2500	72416	12500	6500	4700	$\frac{1}{2}$ " x 50'	2	$3\frac{1}{2}$	17:1 & 5.5:1	$1\frac{1}{8}$ "	Hand

Vertical Lift in Lbs.	H	Dimensions W	L	Ratchet	Mfr's. Model	Stock No.	Each	Lots 3	Shpg. Wt.
1000	$5\frac{1}{2}$ "	$9\frac{1}{4}$ "	$6\frac{1}{4}$ "	Fwd.	DL1000	22601	\$11.48	\$10.60	$6\frac{1}{2}$
1000	$5\frac{1}{2}$ "	$9\frac{1}{4}$ "	$6\frac{1}{4}$ "	Fwd.	DL10006210	72414	22.79	21.05	10
1600	$6\frac{3}{4}$ "	$10\frac{3}{4}$ "	$7\frac{7}{8}$ "	Fwd., Rev.	DL1600	22602	23.21	21.44	$9\frac{3}{4}$
1600	$6\frac{3}{4}$ "	$10\frac{3}{4}$ "	$7\frac{7}{8}$ "	Fwd., Rev.	DL16006210	72415	34.52	31.89	15
250/2500	$6\frac{13}{16}$ "	$11\frac{11}{16}$ "	$9\frac{9}{16}$ "	Fwd., Rev.	DL2500B	22603	39.03	36.03	$13\frac{1}{2}$
250/2500	$6\frac{13}{16}$ "	$11\frac{11}{16}$ "	$9\frac{9}{16}$ "	Fwd., Rev.	DL2500B6212	72416	66.44	61.34	22

Maximum rated capacity in lbs. Single hook models rated with single line; double hook models with double line. NOT for use as a hoist or in overhead load applications. For pulling boats onto boat trailers, use 1600 lb. winch for boats weighing up to 3200 lbs. 1250/2500 lb. winch for boats up to 7000 lbs.

MANUALLY OPERATED MEDIUM-DUTY WINCH

Two-Speed, Double Reduction Gear System
Rated Vertical Lift Capacity to 3500 Lbs.



Winch only

\$73.14

Lots 3

Cable Kit



Hand operated winch engineered for moving wheeled equipment, machinery, vehicles, farm implements, etc. Two gear ratios move heavier or lighter loads with relative ease. 2-way ratchet action; quick disconnect handle. High carbon steel gears case hardened, drive gears equipped with needle bearings for smooth operation. $\frac{1}{4}$ " thick steel base frame comes with mounting holes for easy installation on most winch stands or flat surface. Maximum reel capacity 135' of $\frac{3}{16}$ " cable or 95' of $\frac{7}{32}$ " cable, not included with model 22823. Zinc plated finish. Dutton-Lainson brand. (3500B.)

No. 22823 Winch only, no cable kit.

No. 72439 Winch with cable kit. Includes No. 22823 winch listed above and $\frac{7}{32}$ " x 50' galvanized aircraft cable with hook and safety latch. Additional pulley-block assembly included.

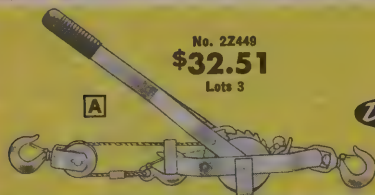
Model	Load* Capacity Pounds	Cable/Hook Assembly Dia. & Lgth.	No. Hooks	Gear Ratio	Drum Hub Dia.	Type Brake	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
inch with cable	3500	$\frac{7}{32}$ " x 50'	2	12:1 & 6:1	$1\frac{1}{8}$ "	Hand	72439	\$164.10	\$106.65	\$98.45	31
inch Only	3500	—	—	12:1 & 6:1	$1\frac{1}{8}$ "	Hand	22823	121.90	79.24	73.14	22

Vertical lift rating. Not for use as a hoist or in overhead load applications.

SEE WARRANTY INFORMATION ON PAGE 684

1 & 2-TON RATCHET PULLERS WITH SAFETY HOOKS

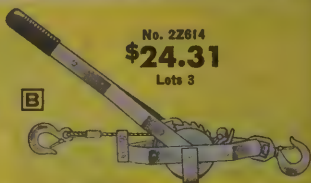
Lightweight, Portable Units for Handling Lifting Work, Moving Machinery, Stretching Fence, Etc.



No. 2Z449
\$32.51
Lots 3

A

Dayton



No. 2Z614
\$24.31
Lots 3

B

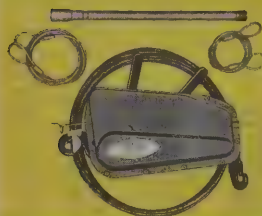
Both models have bronze ratchets and steel frame and hooks that are cadmium-plated to resist corrosion and give many years of useful life. Equipped with galvanized aircraft cable, plus oversize latch-type safety hooks made of drop-forged steel and heat treated for extra strength.

No. 2Z449, 2-ton has unique 3-hooks design for selecting double-line operation for heavier loads, and single-line operation for lighter loads.

No. 2Z614, 1-ton is designed for single-line use only. Comes with two oversize latch type hooks. Lever has slip-resistant grip.

Fig.	Pull Capacity	Max. Lift or Pull Distance	Min. Lift Between Hooks	Cable Dia.	Cable Length	Stock No.	Retail	Each	Lots 3	Net Wt.	Shpg. Wt.
A	Single-Line, 1-Ton	10'4"	24"	3/16"	12 Ft.	2Z449	\$48.89	\$34.22	\$32.51	9 1/2	10 1/2
B	Single-Line, 1-Ton	5	18	3/16"	6	2Z614	36.55	25.59	24.31	7 1/2	8

650-LB. CAPACITY WINCH PULLER WITH HOOKS



No. 6X449
\$55.97

Easy to Operate, Needs Only 24-Lbs. Pressure on Handle to Pull or Haul Bulky Loads. Fully Portable

Multi-purpose wire rope winch-puller can be used for moving engines, bulky containers, construction equipment, freeing bogged down vehicles, landing boats, pulling wire fence, etc. Internal chucks provide positive locking grip on cable. All steel construction, has separate forward and reverse levers, cable release lever, anchor hook with safety latch and removable 1 1/2" pipe handle. Two wire rope anchor slings included: 5/8" x 3 ft. and 3/4" x 6 ft., plus 3/16" x 30 ft. wire rope cable. Overall dimensions: 12 1/2" L x 9" H x 1 1/2" W. Shpg. wt. 8 1/2 lbs. Tirmate Brand.

No. 6X449. Winch Puller. Retail \$79.95. Each. \$55.97

4500 LB. CAPACITY HYDRAULIC PALLET TRUCK

Handles Single-Faced Pallets and Double-Faced Two or Four Way Pallets



\$344.65

Prepaid Freight
On 300 lbs. and Over

LIMITED WARRANTY

Wheels, bearings, and bushings are warranted for 90 days.

Hydraulic unit, frame, and mechanical components for 6 months. See Limited Warranty Policy in Index.

Rolls easily to load, maneuvers in cramped areas. All steel frame has reinforced forks with tapered ends and rugged guide rollers for easy entry and exit from pallets. Steering handle operates hydraulic lift, foot pedal selects up down direction. Hydraulic system has hard chrome pump piston and lift ram with polyurethane seals, built-in tamper proof pressure relief valve. Suspension system has heavy-duty thrust bearings. Adjustable push rods. Sealed permanently lubricated ball bearings throughout. Polyurethane mold-on wheels. Red enamel finish. Monarch brand.

GENERAL SPECIFICATIONS

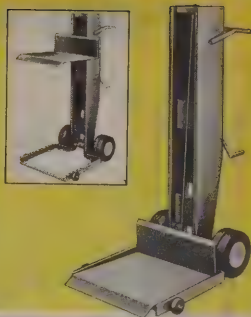
Load Cap	Height of Forks Lowered	Height of Forks Raised	Width Across Forks	Space Between Forks	Fork Width
4500 lbs.	3 1/4"	7 3/4"	27"	14 3/4"	6 3/4"
Fork Length	Dia. of Main Rollers	Dia. of Main Wheels	Pivot Angle	Overall Length	Shpg. Wt.
48"	3 1/4"	8"	200°	60"	230

No. 3W094. 4500 Lb. Capacity Pallet Truck
Retail \$405.50. Each. \$344.65

Phone the Friendly People at Grainger's—They Can Help You

Dayton 500 LB. LIFT HAND TRUCK

Hand Winch Lifts Load 52". 1/4" Dia. Steel Cable. 24 x 19" Platform lifts and transports on any surface from cement floors to rough gravel roads. Exclusive winch operated platform lifts 500 lb. loads up to 52" high. Automatic, self-locking brake keeps load at desired height. 1/4" steel winch cable. Friction release. Rides on four 1 x 2.75" ball bearing, semi-pneumatic wheels and two x 1.25" hard rubber guide wheels. Rugged, heavy-gauge sheet steel and welded channel iron construction. All frame members are welded to form a one-piece unit. Heavy-duty beveled 24 x 19" platform. Red enamel finish. Dayton brand.



GENERAL SPECIFICATIONS

Lifting Height	Platform Size	Lift Capacity	Load Wheels	Guide Wheels	H	Overall L	W	Shpg. Wt.
52"	19 x 24"	500 Lbs.	10 x 2.75"	3 x 1.25"	60"	30"	24"	150

No. 3W009. Lift Truck. Retail \$268.45. Each.....\$187.90

LIMITED WARRANTY
30-Day Limited
Warranty on Parts
& Labor. See
limited Warranty
Policy in Index



Spring-Loaded Casters

TYPE 1 SAFETY PLATFORM LADDERS

6 and 8 Step Sizes. For Stationary and Mobile Use. UL Listed

No. 3W100
\$51.00
6-Step
Provides stability for high-level maintenance, electrical and warehouse work. 15 x 20 1/2" stand-on platform has protective sides and front guard rails plus wooden tool shelf for added convenience. Ladder feet have non-skid rubber treads. Sturdy construction of selected ladder wood with double steel rod beam bracing on back legs. Safety features include steel guard rails with hand-safe lock. To convert ladders for mobile use, order No. 4X740 Caster Set listed below. With casters installed, weight of user compresses springs and keeps ladder stationary while in use. Ladders fold flat for storing. UL listed, meet applicable OSHA standards and ANSI wood ladder code. Goshen brand.

No. Steps	Step Width	Ht. to Platform	Overall Height	Overall Base Width	Open Depth
6	4 3/8"	5' 7"	8' 7"	28 1/2"	51"
8	4 3/8"	7' 9"	10' 7 1/2"	32"	60"

PLATFORM LADDER PRICES

No. Steps	Mfgs. Model	Stock No.	Retail	Each	Wt.
6	11228	3W100	\$60.00	\$51.00	43
8	11229	3W101	76.00	64.60	64

CASTER SET FOR LADDERS

No. 4X740. Set of four 2" heavy-duty spring-loaded casters. Order one set per ladder. Shpg. wt. 5 lbs. Ret. \$27.08. Ea. \$16.25

INDUSTRIAL DUTY CABINETS

All Steel Construction. Adjustable Shelves
Floor and Counter Height Models. 36 W x 18" D

Industrial-duty storage cabinets are engineered to withstand continuous, rugged use. Both models have double swinging steel doors that close to provide safe, cleaner storage of office supplies and equipment, valuable small parts, records, first-aid supplies, etc. Doors have pan-type construction with 3-point closure mechanism and built-in cylindrical lock to discourage pilferage. Units are free-standing, can be set side-by-side, back-to-back or in any arrangement desired. Counter unit can be used in free-standing position, when wall space is limited. Can be utilized as counter and storage cabinet combined. Floor unit measures 72 H x 36 W x 18" D, comes with 4 adjustable shelves. Counter unit is 42 H x 36 W x 18" D, comes with 2 adjustable shelves. Shelves adjust on 2" centers. Cabinets are shipped unassembled; assemble quickly with ordinary hand tools. Gray enamel finish. Edsal brand (7000, 7001).

Type	High	No. Shelves	Stock No.	Each	Lot 10	Shpg. Wt.
Floor	72"	4	3W090	\$80.38	\$75.02	110
Counter	42"	2	2W182	62.70	58.52	75

Counter Unit

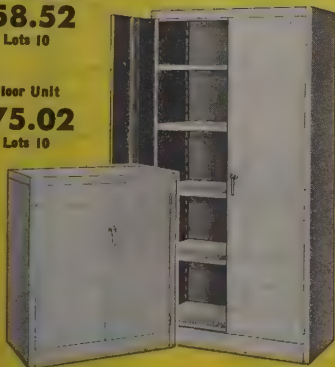
\$58.52

Lots 10

Floor Unit

\$75.02

Lots 10



Shelves Adjust on 2" Centers



A



B



C



E

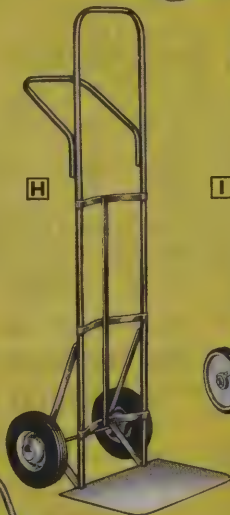


No. 2W084
Noseplate Extension
Fits (B), (C), (D),
and (E) hand
trucks only.

F



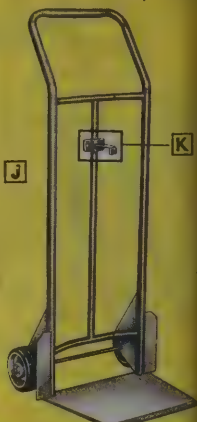
G



H

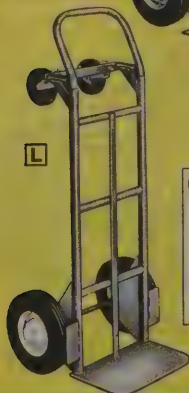


I



J

K



L



No. 1W615
\$20.49

All Trucks
have tubular
steel frames,
red enamel
finish



M

INDUSTRIAL STEEL ROLL-ABOUT HAND TRUCKS



No. 1W615, 600 Lb. Capacity—5" solid rubber wheels. For heavy loads on smooth floors.

No. 1W617, 300 Lb. Capacity—8" semi-pneumatic wheels. For light bulky loads.

No. 2W063, 400 Lb. Capacity—10" semi-pneumatic wheels. For medium loads; stair climber feature.

No. 2W179, 600 Lb. Capacity—10" pneumatic wheels. For heavy loads. Stair climber feature.

No. 2W067, 300 Lb. Capacity—8" semi-pneumatic wheels. For light bulky loads. Highly maneuverable.

No. 2W064, Nose Extension—Fits Nos. 2W179, V617, 2W063 & 2W067. 11" wide, extends 22½".

No. 3W041, 400 Lb. Capacity—10" semi-pneumatic wheels. Medium weight loads; stair climber feature.

No. 1W680, 400 Lb. Capacity—10" semi-pneumatic wheels. For large bulky loads requiring high stackability.

No. 2W157, 700 Lb. Capacity—8" tires molded on cast aluminum wheels. For very heavy loads.

No. 1W580, 750 Lb. Capacity Industrial Warehouse Truck—6" tires molded on cast aluminum

wheels. Very heavy loads. Shown with barrel hook.

K No. 5X883, Barrel Hook—Fits vertical center bar of No. 1W580 or 2W157. Adjustable height.

L No. 2W065, 400 Lb. Capacity Convertible Truck—10" semi-pneumatic wheels, 5" casters. Use in upright or horizontal position. Medium loads.

M No. 2W066, 750 Lb. Capacity—8" tires molded on cast aluminum wheels. For large heavy loads. Highly maneuverable in narrow aisles.

N No. 3W071, 1000 Lb. Capacity Barrel Truck—10" tires molded on cast iron wheels. For very heavy barrels and drums.

O No. 3W042, 700 Lb. Capacity Appliance Truck—6" solid rubber wheels. Adjustable belt secures load, has belt-type stair climbers.

P No. 3W088, 400 Lb. Capacity Beverage Truck—10" semi-pneumatic wheels. Handles medium loads.

Q No. 3W089, 600 Lb. Capacity Beverage Truck—10" pneumatic wheels. For heavy loads.

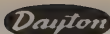
R No. 3W087, 600 Lb. Capacity Industrial Warehouse Truck—10" pneumatic wheels. For large heavy loads.

HAND TRUCK DIMENSIONS AND PRICES

Overall Height	Width	Size	Wheels—Type	Noseplate Size	Stock No.	Retail		Shpg. Wt.
						Each	Each	
46½"	16½"	5 x 1½"	Solid rubber	8 x 14"	1W615	\$27.40	\$20.49	19
48½"	19"	8 x 1.75"	Semi-pneumatic	8 x 14"	1W617	36.75	27.24	27
46½"	20½"	10 x 2.75"	Semi-pneumatic	8 x 14"	2W063	46.80	35.00	41
46½"	20½"	10 (4.10/3.50 x 4)	Pneumatic	8 x 14"	2W179	63.25	47.49	50
46"	19"	8 x 1.75"	Semi-pneumatic	8 x 14"	2W067	35.30	28.21	28
50½"	21"	10 x 2.75"	Semi-pneumatic	11 x 22½"	2W064	10.20	7.68	2
65"	20"	10 x 2.75"	Semi-pneumatic	8 x 14"	3W041	49.05	36.67	44
47"	18½"	8 x 1½"	Tire molded on cast aluminum	14 x 20"	1W680	52.90	37.12	44
51"	19½"	6 x 2"	Tire molded on cast aluminum	11 x 15"	2W157	76.10	57.06	35
				14½" x 17½"	1W580	80.80	56.51	46
48"	19½"	10 x 2.75"	Semi-pneumatic	8 x 14"	5X883	4.15	3.35	1
46"	16½"	8 x 1½"	Tire molded on cast aluminum	8 x 14"	2W065	75.80	60.64	45
67"	22½"	10 x 2½"	Tire molded on cast iron	9½" x 15½"	2W066	100.10	79.25	52
60"	21½"	6 x 2"	Solid rubber	17¾" x 17½"	3W071	130.15	97.61	67
				4½" x 24"	3W042	123.85	92.38	46
51"	17½"	10 x 2.75"	Semi-pneumatic	8 x 14"	3W088	52.55	39.42	44
51½"	19"	10 (4.10/3.50 x 4)	Pneumatic	8 x 14"	3W089	62.95	47.20	50
51"	17½"	10 (4.10/3.50 x 4)	Pneumatic	8 x 14"	3W087	65.40	49.09	46

Overall width and height of load-carrying bottom frame.

SEE WARRANTY INFORMATION ON PAGE 684



INDUSTRIAL PLATFORM TRUCKS

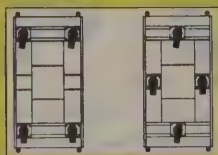
Select Specific Load and Deck Size to Meet All Moving Requirements



1300 Lb.
Capacity
\$86.65
24 x 48"

- Highly Maneuverable
- Heavy Duty Construction
- Long Life Caster Sets
- Wide Selection of Sizes
- 1300 to 2500 Lb. Load Capacities

CASTER MOUNTING PATTERN



**STANDARD
CORNER**

**DIAMOND
(TILTING)**

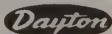
Choose highly maneuverable Dayton platform trucks with extra heavy-duty welded steel deck construction—capacities from 1300 to 2500 lbs. Used in a wide range of applications including shipping and receiving rooms, warehouses, stock rooms, shops, laboratories, stores, etc. 14-ga. extra duty formed steel deck has all welded construction with additional $\frac{3}{16}$ " angle frame reinforcements welded underneath for additional strength. Casters meet specified load-capacity requirements and are selected to provide smooth handling in aisles and tight spots. Casters are chosen for long service life and high strength. See index for pages describing specific caster models. Casters are packed separately in matched sets of two ball bearing swivel plate and two rigid plate mountings that easily bolt on in standard corner pattern, or diamond (tilt type) pattern. Diamond-tilt pattern is ideal where short turning radius is required. In this caster mounting pattern, truck will tilt-balance slightly on center side casters. This increases mobility, truck turns in its own radius. Steel pipe handle inserts at either end of platform. Red baked enamel finish. Shipped assembled except for wheel mountings which bolt easily to undercarriage. Dayton brand.

PLATFORM TRUCK SPECIFICATIONS AND PRICES

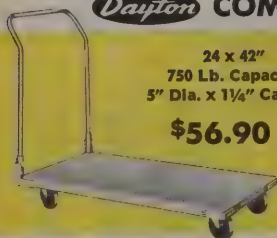
Load Capacity	Deck W	Size L	Size	Caster Wheels Type*	Axle Bearings	Stock No.	Retail	Each	Shpg. Wt.
1300 lbs.	24"	48"	6x1 $\frac{3}{4}$ "	Soft rubber	Sleeve	7W136	\$104.35	\$ 86.65	96
1700	24	48	6x1 $\frac{3}{4}$ "	Hard rubber	Sleeve	7W137	106.50	84.60	95
1300	27	54	6x1 $\frac{3}{4}$ "	Soft rubber	Sleeve	7W138	110.90	91.95	117
1700	27	54	6x1 $\frac{3}{4}$ "	Hard rubber	Sleeve	7W139	113.05	89.90	116
1800	30	60	6x2	Mold-on	Roller	7W140	164.45	134.80	147
2200	30	60	8x2	Mold-on	Roller	7W141	164.50	142.15	155
2500	30	60	6x2	Phenolic resin	Roller	7W142	150.25	126.85	148
2500	30	60	8x2	Phenolic resin	Roller	7W143	163.50	130.65	156

(*) Mold-on—Soft tread rubber tire molded on cast aluminum hub.

(*) Phenolic resin—Hard tread wheel of fibre reinforced phenolic resin.



COMMERCIAL PLATFORM TRUCK



24 x 42"
750 Lb. Capacity
5" Dia. x 1 $\frac{1}{4}$ " Casters
\$56.90

Sized right for shipping and receiving departments of shops and stores, production line, etc. Welded steel construction—holds 750 lbs. Platform deck is 24" wide, 42" long, made of box formed 16 ga. steel sheet with two 14 ga. formed steel reinforcing channels on underside. 1" steel pipe handle is 36" high. Truck rides easily on 5" dia. 1 $\frac{1}{4}$ " wide rubber casters; two rigid, two swivel. Ball bearing race casters bolted on (not welded) for easy service. Non-marring rubber bumpers on front corners. 44 L x 36" H overall; platform 6 $\frac{1}{4}$ " H. Red baked enamel finish. Shipped unassembled; easy to assemble, all hardware included. Shpg. wt. 55 lbs. Dayton brand.

No. 1W819. Retail \$78.30. Each.....**\$56.90**

SHOP AND MATERIAL HANDLING EQUIPMENT STOCKED

This MotorBook includes a large and varied line of widely-used material handling and shop equipment, all available from your Grainger Sales Office/Warehouse at low cost. All equipment offered is designed to either help your people work more

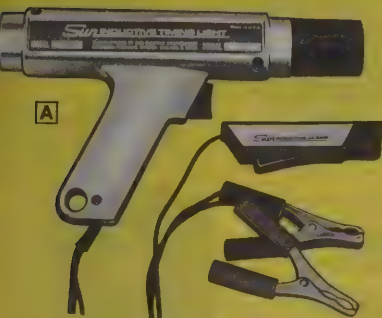


efficiently or store material more systematically. The modern equipment available from Grainger pays for itself in use. See Index for products needed; chances are you'll find them, and many more that can help make your operation more efficient.



AUTOMOTIVE TUNE-UP TESTING EQUIPMENT

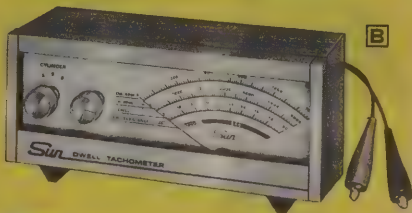
For Use on American and Imported Automobiles, Trucks and Gasoline-Fueled Internal Combustion Engines. Complete Tune-Up Instructions Included



A

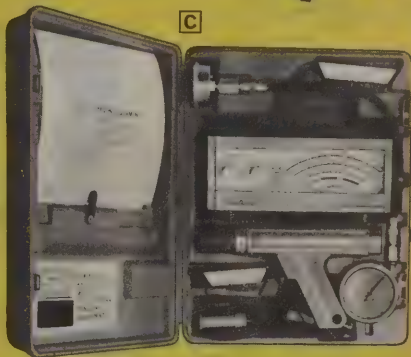
NEW

A No. 6X251, Inductive Timing Light \$41.98



B

B No. 6X252, Dwell/Tachometer \$53.97



C

C No. 2W227, Complete Testing Kit \$149.97

Inductive Timing Light—For setting ignition timing and checking vacuum and centrifugal advance. The inductive pick-up clamps over the spark plug wire, eliminating the need to disconnect wires or install spark plug adapters. Focused xenon tube flash is bright enough to be seen in broad daylight. Solid-state, transistorized circuit is protected from reverse polarity damage. Powered by 12 volt vehicle battery; colored, heavy duty battery post clips and 6-ft. cables included. Other features include chrome-plated, die-cast metal housing; pistol-grip handle with trigger switch; and protective rubber nose cone. Can be hooked up while engine is running. Use on all conventional and electronic ignition systems. Complete hook-up instructions included. Sun brand.

Dwell/Tachometer—For checking and adjusting ignition-point dwell angle, engine RPM, contact resistance, carburetor mixture and idle speeds—plus test dwell variation, cylinder efficiency and PCV valve performance. Meter scale is a wide $6\frac{1}{2}$ " for easy reading. Cylinder selection switch for 4, 6 and 8 cylinder engines. Injection selector for low RPM (0 to 1500 scale), High RPM (0 to 6000 scale), dwell (0 to 90° scale), and point resistance (Good/Bad scale). Quality-made Sun meter, 120° jeweled D'Arsonval movement and solid-state, transistorized circuit for long service life and full scale accuracy. Powered by circuit being tested—no batteries to place, no battery hook up. Rugged steel housing with injection-molded ABS plastic front panel and padded rubber feet to absorb vibration and protect car finish. Use on all conven-

tional and electronic ignition systems. Instructions for use included. Sun brand.

C Complete Testing Kit includes the inductive timing light and dwell/tachometer described in (A) and (B)—plus these additional items:

Vacuum gauge with standard and metric readings. Scale ranges: 0 to 30" vacuum, 0 to 70 cm vacuum, 0 to 10 lbs. psi and 0 to .7 kg per sq. cm. Chrome-plated steel housing, $3\frac{1}{2}$ " dia. face dial. Complete with 48" neoprene hose, T-fitting, 1/8 and 3/8" NPT manifold fitting, universal adapter and PCV valve test band.

Compression tester with standard and metric scales up to 300 lbs. psi and 21 kg per sq. cm. Chrome-plated steel housing, $2\frac{1}{2}$ " dia. face dial. Release valve for repeating tests without disconnecting. Comes with 18" long high-pressure hose and integral 14mm and 18mm screw-in spark plug adapter.

Remote starter switch for cranking or starting engine from outside of vehicle. Spring-loaded switch is designed for sensitive bumping or jogging control. Injection-molded, high temperature ABS plastic housing. Includes 4-ft. long neoprene covered copper wire leads and insulated, booted terminal caps.

Carrying case with specially designed compartments for testers and accessories. Included in case lid is a handy 3-ring binder with complete, step-by-step tune-up manual, hook-up instructions and service check list wall chart—plus a prepaid mailer for obtaining specification cards that detail tune-up requirements for each model car and engine. Sun brand.

Description	L	—Dimensions— W H	D	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Inductive Timing Light	11 $\frac{1}{2}$ "	2 $\frac{3}{8}$ " 6 $\frac{1}{2}$ "	—	CP-7501	6X251	\$69.99	\$41.98	4
Dwell/Tachometer	11 $\frac{1}{2}$ "	— 5 $\frac{1}{4}$ "	4 $\frac{1}{2}$ "	CP-7601	6X252	89.99	53.97	5
Complete Testing Kit	18 $\frac{1}{2}$ "	14 $\frac{1}{2}$ " —	6 $\frac{1}{4}$ "	CP-7702	2W227	250.00	149.97	14

SEE WARRANTY INFORMATION ON PAGE 684

Dayton 6 & 12 VOLT BATTERY CHARGERS



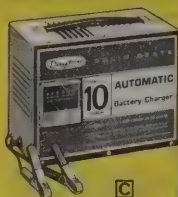
A

\$14.50

2 Amp

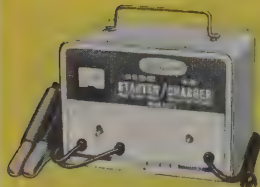


B

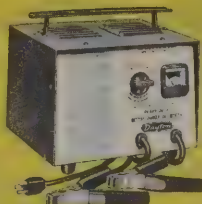


C

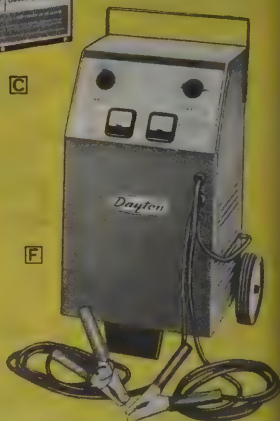
\$145.50
100/300 Amp



D



E



F

ALL MODELS—Equipped with automatic circuit breakers to protect against damage from overload or reversed connections. Designed and built for 115V, 60 Hz operation. UL listed.

[B] 4, 6 & 10 AMP MANUAL CHARGERS, Nos. 22196, 22197 and 22198—Come with selector switch for charging 6 and 12V batteries. No. 22196 charges at 4 amps, then tapers to 2 amps as power builds in battery. No. 22197 charges at 6 amps, tapers to 3 amps; and No. 22198 charges at 10 amps, tapers to 5 amps. Charger must be manually unplugged when battery is fully charged to prevent damage to battery. Calibrated ammeters show rate of charge. Carrying handle and 6 ft. DC leads included.

[A] [B] [C] 2, 6 & 10 AMP AUTOMATIC CHARGERS, Nos. 5X905, 22378 and 22578—Keep infrequently used equipment constantly at full charge. Units deliver full amp output to low battery, decrease rate as battery nears full charge, provide trickle charge to maintain full charge by automatically turning unit On and Off, no need to disconnect charger. Calibrated ammeters, except No. 5X905, show rate of charge. Chargers compensate automatically for temperature and AC voltage variations. May be left connected and On for extended periods without harm to battery. Carrying handle (No. 5X905 has hanger clips) included. For 12V batteries only. Dayton brand.

[D] 20 AMP CHARGER WITH 100 AMP ENGINE CRANK, No. 22379—Has boost power for cranking engines with low batteries—up to 100 amps for 6V systems, 60 amps for 12V systems. Three-position toggle switch to select desired functions: Charge-Off-Start. Up to 20 amp output for fast charging. Calibrated ammeter, voltage selector switch, carrying handle and 6 ft. DC leads included. Dayton brand.

[E] 45 AMP CHARGER WITH 225 AMP ENGINE CRANK, No. 22556—Delivers 225 amps for starting large engines. For normal charging, unit puts out 45 amps at 6 and 12 volts, tapering to 5 amps. Unit features calibrated ammeter and 7 selector switch positions: Off-Slow-Fast-Boost for 6 volt batteries; Slow-Fast-Boost for 8 and 12 volt batteries. Comes with carrying handle and 6 ft. DC leads. Dayton brand.

[F] 100 AMP CHARGER WITH 300 AMP ENGINE CRANK, No. 32351—Mobile floor unit delivers 300 amps boosting power for heavy equipment using 6, 8, 12 or 14 volt batteries. Charges 100 amps for 6 volt batteries; 60 amps for 12 volt batteries. Seven position selector switch has settings for Off-Low-Medium-High for 6 volt batteries; Slow-Medium-High for 8 and 12 volt batteries. Voltmeter registers battery voltage. Has calibrated ammeter and timer controls, wheel/handle kit and 8 ft. DC leads. Dayton brand.

Fig.	Max. DC Amps Output	Taper to:	Avg. Charge		3 Cond. AC Cord	Primary AC Amps Input	DC Leads in Ft.	Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
			Time in Hours	6V 12V				W	H	D				
A	2	0	(†)	14-18	6 ft.	0.44	6	5 1/2"	3 3/4"	2 1/4"	5X905	\$26.25	\$14.50	3
B	4	2	10-14	5-7	6	0.8	6	7 1/4"	4 1/2"	5	22196	29.90	18.14	5 1/2
B	6	3	7-9	4-5	6	1.2	6	9 1/4"	6	6 1/2"	22197	35.55	21.58	9
B	6	1	(†)	3 1/2-4 1/2	6	1.2	6	9 1/4"	6	6 1/2"	22378	44.50	27.11	9 1/2
B	10	5	5-6	2 1/2-3	6	1.9	6	9 1/4"	6	6 1/2"	22198	43.50	26.72	11
C	10	1	(†)	2 1/2-3	6	1.9	6	9 1/4"	5 1/2"	7 1/4"	22578	55.90	34.26	12
D	20/100*	10	1 1/2-3	1 1/2-3	6	11.0	6	11 1/2"	7 7/8"	8	22379	113.55	70.53	22
E	45/225*	5	1	1	8	15.0	6	7 1/2"	11 1/2"	13	22556	121.40	85.00	30
F	100/300*	5	1/2-1	1/2-1	8	13.0	8	16"	27"	15	32351	207.90	145.50	65

(*) Maximum amperage output is for engine cranking only—NOT to remain connected more than 1/2 minute.
(†) For charging 12V batteries only.

1000 LB. HYDRAULIC SWIVEL CRANE

Mounts on Truck Bed, Floor or Ground. Can be Rotated 360°

Handy hydraulic crane is of welded steel construction and mounts easily on bed of pick-up or any other flat-bed truck for lifting, moving operations. Can also be used where floor or ground installation is desirable. Includes 12" deep mounting well which requires a 3" diameter hole and 4 bolt holes cut in floor of truck to fasten a 10 x 10 x 1 1/2" thick plate and well tube securely to floor. Crane can swivel 360°, or be set to lock at 90° intervals to prevent load from rotating out of control. Hand operated hydraulic jack has 18" stroke, 1" dia. shaft. Crane is readily moved from installation—simply lift crane from mounting well. Includes adjustable 22 1/2" long link chain grab hook. Requires 92" garage door clearance height when mounted on most pick-up trucks. Shipped in one box 11 x 11 x 75". Dayton brand. Shpg. wt. 160 lbs.

No. 3Z482. Hydraulic Crane. Retail \$236.49. Each.....\$201.02

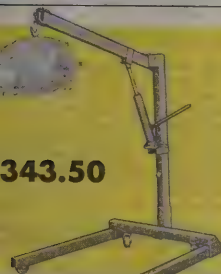
Dayton

\$201.02



BOOM LENGTH—LOAD CAPACITY VARIATIONS

Boom Position	Capacity	Boom Length	Max. Height	Min. Height
Fully retracted	1,000 lbs.	40"	83"	22"
Med. extended	900	50	88	12
Fully extended	800	60	95	2



\$343.50

1500 LB. HYDRAULIC MOBILE CRANE

Lifts 1500 Lbs. up to 7 Ft. High. Easily Assembled

Made of heavy rectangular steel for lifting maximum loads of 1500 lbs. up to 7 ft. Unit rolls easily on four double-level, ball-race 4" steel casters; rear casters are swivel type for easy mobility and spotting loads. Long-ram jacking mechanism has slow release valve for positive control when lowering load. Forged 3/8" swivel hook has 1 1/4" opening; allows for 360° rotation of load.

Distance from floor to tip of hook is 34" minimum, 87 1/2" maximum. Boom length 52". Overall dimensions 40 1/2" W x 68 L x 65 1/2" H with boom lowered. Floor legs 62 L x 5 1/2" H (from floor) x 2" W with 36 3/8" between legs. Shipped unassembled. Can be assembled or taken apart easily without tools for compact storage. Shipped in one box, 11 x 20 x 70". Shpg. wt. 257 lbs. Kaydee brand (KD 1500).

No. 3Z352. 1500 Lb. Crane. Retail \$425.00. Each.....\$343.50

1-TON PORTABLE SERVICE JACK

Compact Hydraulic Jack Lifts Cars or Equipment

Stores in 5 H x 5 W x 26 1/2" L Space

Can be Carried in One Hand. Dayton Brand

Lightweight fully portable jack is designed to lift cars without danger of jack sliding, as handle is raised. Lifts cars by their strongest points, the frame, or torque box area of unitized cars and automobiles. Entire jack base, over 98 sq. in., supports load and eliminates problem of steel-base jacks have of rolling or sinking on hot asphalt, gravel, soft ground, mud and snow. Built-in carrying handle. All steel construction, lifts up to 2000 lbs. Lifting height range: 3" to 16 1/2". Built-in overload valve. Reversible jack handle stores inside base. Fully assembled unit can be stored inside service vehicle or in rear compartment of tow truck, pickup or automobile trunk. Red finish. Dayton brand. Shpg. wt. 35 lbs.

No. 6X450. 1-Ton Service Jack. Retail \$101.84. Each.....\$76.38

Dayton

No. 6X450

\$76.38

90-Day
Limited
Warranty
See Limited
Warranty
Policy in
Index



Stores in
5" x 5" x 26 1/2" Space



No. 2Z181

\$5.52

Lots 6

DRY CELL BATTERY CHARGER

For AA, C, D Size Cells, 9V Batteries

Compact unit charges alkaline, nickel-cadmium and ordinary carbon zinc type batteries found in most battery powered appliances, toys, portable calculators, flashlights, etc. Unit plugs into 115V, 60 Hz outlet, begins charging immediately when cover is closed. Charges one to four batteries at a time, same size or intermixed. Burgess Vibrocrafters Inc. brand. (PNC-12M). Shpg. wt. 1 1/4 lbs.

No. 2Z181. Retail \$6.59. Each \$5.96; lots 6.....\$5.52

SEE WARRANTY INFORMATION ON PAGE 684

3 to 20 TON INDUSTRIAL HYDRAULIC JACKS

Hand Operated Units for Industrial & Construction Applications
Gravity Seating Straight-Line Valves



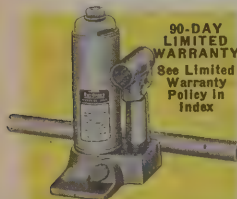
90-DAY
LIMITED
WARRANTY
See Limited
Warranty
Policy in
Index

No. Z2169
\$16.76

Lots 4

Versatile, all-purpose Dayton hydraulic jacks will handle lifting jobs up to 20 tons easily and economically. These jacks are widely used in industrial and construction work—moving machinery, materials, heavy equipment, etc. Also used by car and truck repair shops, fleets, municipalities, and for farm applications, general maintenance work, etc. Exclusive gravity seating straight-line valves (no springs). Screw type release valve. Operates vertically (up only), or horizontally with hydraulic lift socket underneath jack. Safety oil vent prevents forcing ram beyond lift limit. Large diameter extension screw on all models except 20-Ton. Forged steel load-rest. 2-piece 22" removable steel handle. Red enamel finish.

Maximum Capacity	Lifting Range Low Ht.—Max. Ht.	Exten. Screw	Hydraulic Lift	Base Size	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
3 Tons	8½ to 17½"	3 x ¾"	6"	4½ x 5½"	22169	\$34.35	\$17.63	\$16.76	11
5 Tons	8½ to 17½"	3 x ¾"	6"	4½ x 6½"	22170	44.45	23.52	22.37	13½
8 Tons	9 to 19½"	4½ x 1"	6½"	5½ x 6½"	22171	53.90	25.73	24.49	17
12 Tons	9½ to 18½"	3 x 1½"	6½"	5½ x 6½"	22194	66.95	35.05	33.31	22
20 Tons	10¾ to 17½"	None	6¾"	6¾ x 6¾"	22195	117.20	61.16	58.13	38½



90-DAY
LIMITED
WARRANTY
See Limited
Warranty
Policy in
Index

1½ TON LIGHT DUTY HYDRAULIC JACK

Compact Hand Operated Jack Lifts Loads up to 1½ Tons

\$12.54

Lots 4

Hand operated hydraulic jack suited for most lighter-weight lifting jobs where loads do not exceed 1½ tons. Operates vertically (up only), or horizontally with hydraulic lift socket underneath jack. Lifting range: 7¾" low height to 14½" maximum height with 2¾" extension screw fully extended. Total hydraulic lift: 5½". Forged steel base is 3¾". Screw type release valve is easily operated by two-piece 12¾" steel jack handle. Red enamel finish. Drednaut brand (65-1131). Shpg. wt. 7½ lbs.

No. Z2238. 1½ Ton Jack. Retail \$21.85. Each \$13.20; lots 4.....**\$12.54**



Dayton

\$38.18

Lots 4

90-DAY
LIMITED
WARRANTY
See Limited
Warranty Policy
In Index

3 TON MULTI-PURPOSE HYDRAULIC JACK

Has Extra Long Extension Ram & Roller Chain Load Hook for Lifting. Ram Lifting Range 24¾" Minimum, 41¾" Maximum

Versatile jack not only handles a wide range of lifting work, it can also be used for pushing and pulling heavy machinery, materials, etc. Extra-long extension ram with serrated load rest travels a full 17", has a lifting range from 24¾" up to 41¾". Flexible 17" long roller chain load hook attaches to jack rest, provides an additional lifting range from 7¾" up to 24¾". Standard ¼" link chain and hook (not included) can be adjusted to proper length on load rest for handling pulling work. Base size 4¾ x 5½"; overall height 24¾" with ram lowered. Includes 17" long roller chain load hook and jack handle. Red enamel finish. Shpg. wt. 28 lbs.

No. Z2636. 3 Ton Jack. Retail \$49.65. Each \$40.14; lots 4.....**\$38.18**

4 & 10 TON REMOTE CONTROL HYDRAULIC JACKS

Operates in Either Upright or Horizontal Position



Dayton

No. Z2172
\$89.28 Lots 4

90-DAY LIMITED WARRANTY
See Limited Warranty Policy in Index

Compact Dayton hydraulic jacks have 72" connecting hose and are specially designed for lifting jobs in small or hard-to-reach areas. Positive ram travel stop and safety overload valve. Easy to operate. Jacks have ram cylinder made of special seamless steel tubing. Exclusive polyurethane ram cup is resistant to wear and impervious to oil and water; spring retracting. Displacement type pump is easy to maintain, has trouble-free valves. 72" long connecting hose with quick-detachable hose couplers. Attractive red enamel finish protects against rust. Dayton brand.

Capacity, Tons	Ram Height Low. Raised	Ram Dia.	PUMP				Overall Length	Handle Length	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
			PSI	Oil Cap., Cu. In.	Stroke								
4	10½" 15½"	1¾"	7,000	15	5½"	14¾"	14"	22172	\$118.10	\$94.03	\$89.28	16	
10	12½" 18½"	2½"	10,000	50	7½"	20	19	22638	175.35	125.04	118.73	29	

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

1½ & 2 TON FLOOR-SERVICE HYDRAULIC JACKS

1½ Ton Jack Lifts to 20" Height, 2 Ton Unit to 24½" Height

No. 32353
\$149.71
Lots 3



1½-TON

90-Day Limited Warranty
See Limited Warranty Policy
in Index

Dayton

No. 32416
\$223.80
Lots 3



2-TON

Heavy duty hydraulic service jacks lift vehicles, equipment, machinery, etc. 1½-ton jack has 48" tubular twist handle for locking and lowering; lifting ram; 3½" front wheels. 2-ton jack has 42" malleable steel "T" handle with built-in control

knob; 4" front wheels. Other features common to both units include overload safety valve and release valve, heavy steel side plates, malleable iron lift ram, and 2" ball bearing casters at rear. Red enamel finish. Dayton brand.

Maximum Capacity	Ram Height Lowered	Ram Height Raised	Chassis Dimensions H	Chassis Dimensions W	Chassis Dimensions L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1½ Tons	3½"	20"	5½"	13½"	26¾"	32353	\$231.55	\$159.55	\$149.71	90
2 Tons	4"	24½"	6¾"	13¾"	42"	32416	340.35	238.25	223.80	144



Dayton

\$39.20

Pr., Lots 4
90 Day
Limited Warranty
See Limited
Warranty Policy
in Index

5 TON CAPACITY JACK STANDS

For servicing vehicles or equipment in automotive and industrial applications. Support stationary loads up to 5 tons each. Welded channel steel construction. One-piece malleable iron load bar adjusts on 1" increments, automatically locks as it is raised. Carrying handle also functions as load bar release. Overall jack stand height: 15¾" with load bar down, 25¼" when set at highest position. Base dimensions 11 x 11". Sold in pairs only. Red enamel finish. Shpg. wt. 34 lbs.

No. 22584. Retail \$52.40. Each \$41.29; lots 4, per pair.....\$39.20

2 TON GEARED SCISSORS JACK

Operates in any Position. Includes 52" Folding Handle
Precision 15" Long Lifting Screw Opens Jack to 15¾" Max. Ht.
Scissors-type jack is ideally suited for lifting vehicles and equipment in a wide variety of types and sizes. Unit is particularly useful where jacking space is limited. Has only "closed" height, and opens to 15¾" raised height. Side links designed for no-bind operation. Has precision 15" long screw for easy lifting. Features 4-to-1 gear reduction to make extra-easy lifting easy—plus direct drive for speedy raising and lowering. Operates in any position. Base size 5½ x 8". Includes folding handle for operating lifting and lowering screw. Red enamel finish. Shpg. wt. 21 lbs. Dayton brand.

22637. 2-Ton Capacity Geared Scissors Jack. Retail \$28.85. Shpg. wt. 21 lbs; lots 4\$20.64

Dayton

\$20.64

Lots 4

90-Day
Limited Warranty
See Limited
Warranty Policy
in Index



5, 10 & 20 TON HEAVY DUTY SCREW JACKS

\$14.11 5-Ton
Lots 4

- Operate in Any Position
- For Lifting & Moving Work

These all-purpose screw jacks are available in three models to safely handle lifting jobs from 5 to 20 tons. Jacks are ideally suited for use in construction, industrial and automotive applications and can be operated in any position for moving machinery and other heavy objects, as well as for handling lifting work.

Large cast-iron bell base has carrying handle that helps position jack under load. Precision-cut steel screw has corrugated swivel cap for safer load support. Operate by inserting steel rod or wrecking bar (not included) in openings below swivel cap. Individually boxed. Eron brand.

Maximum Capacity	Height Adjustment Min.	Height Adjustment Max.	Screw Dia. x L	Mfr's. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
5 Tons	8½"	12¾"	1" x 8"	SJ5	22594	\$21.70	\$15.19	\$14.11	6
10 Tons	11½"	16¾"	1½" x 6"	SJ10	22595	31.10	21.77	20.22	13
20 Tons	15½"	24¾"	2" x 10"	SJ20	22597	70.70	49.49	45.96	38

SEE WARRANTY INFORMATION ON PAGE 684

Wagner

LIGHT DUTY COMMERCIAL CASTERS

Meet Specification & Dimension Standard CFT-CI-58 of Caster & Floor Manufacturer's Association

No. 5X721 Rugged, long-life casters for replacement or original equipment use on shop, store, institutional and maintenance equipment—for example, tool carts, trucks, portable cabinets, dollies, chairs, service carts, etc. Swivel stem and plate casters are built with a short, husky king pin for extra strength and lower overall caster height. All types have bright, zinc-coated metal parts for max. corrosion resistance; Cushionex soft tread rubber wheels permanently bonded to a hard core for noiseless operation; self-lubricating metal axle bearings; and industry-standard mountings and dimensions. Packed 4 to a carton. Wagner brand.

Lots 4

SWIVEL BALL BEARING CONSTRUCTION

DUO-LEVEL—Hardened, polished steel balls operate in two interconnecting, heavy-duty raceways for easy swiveling, even load distribution and long operating life. Meets radial and thrust loads of directional changes for easy maneuvering of equipment frequently on the move.



UNI-LEVEL—A single row of hardened, polished steel balls operated in a single lubricated raceway for smooth swiveling. Best suited for use where moderate load ratings and operating conditions are encountered.



A

SMOOTH STEM

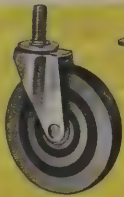
Swivel Bearings:
Duo-Level
Stem: 7/16" dia. x
1-29/32" long



B

FRICTION RING STEM

Swivel Bearings:
Duo-Level
Stem: 7/16" dia. x 1 1/8" L



C

THREADED STEM

Swivel Bearings:
Duo-Level
Stem: 1 1/2" long,
7/16"—14 thread*



D

SWIVEL PLATE

Swivel Bearings:
Duo-Level
Plate: 2 1/4 x 3 3/4" with 11/32" dia. holes spaced 1 1/2 x 3" O.C.



E

RIGID PLATE

Plate: 2 1/4 x 3 3/4" with 11/32" dia. holes spaced 1 1/2 x 3" O.C.

Key	Swivel Bearings	Wheel Size Dia.	Wheel Size Wide	Overall Height	Load Rating	Mfr's. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
A	Duo-Level	2"	1 1/8"	2 1/8"	75 lbs.	11F-3022-97	4X833	\$3.40	\$2.05	\$1.88	1
B	Duo-Level	2	1 3/8"	2 1/8"	75	11F-3245-97	4X948	3.60	2.14	1.97	8 oz.
B	Duo-Level	3	1 3/8"	3 3/8"	100	11F-3235-97	4X938	4.90	2.94	2.70	1 1/2
B	Duo-Level	4	1	1 1/8"	115	11F-3236-97	4X939†	5.30	3.19	2.93	1 1/2
B	Duo-Level	5	1	5 1/16"	125	11F-3237-97	4X940†	7.90	4.73	4.33	1 1/2
C	Duo-Level	2	1 3/8"	2 1/8"	75	11F-3244-97	4X947	3.10	1.86	1.71	8 oz.
C	Duo-Level	3	1 3/8"	3 3/8"	100	11F-1787-97	4X691	5.30	3.18	2.89	1
C	Duo-Level	4	1	4 1/16"	115	11F-1788-97	4X692†	6.20	3.72	3.42	1 1/2
C	Duo-Level	5	1	5 1/16"	125	11F-1789-97	4X693†	6.95	4.16	3.82	2
D	Duo-Level	3	1 3/8"	3 3/4"	100	11F-1550-97	4X618	5.00	3.00	2.75	1
D	Duo-Level	4	1	4 1/16"	115	11F-1551-97	4X619†	6.05	3.63	3.33	1 1/2
D	Duo-Level	5	1	5 1/16"	125	11F-1553-97	4X621†	6.95	4.13	3.78	2
D	Uni-Level	2	1 3/8"	2 3/8"	70	11F-3682-97	5X721	2.55	1.52	1.40	1
D	Uni-Level	2 1/2	1 3/8"	3 1/8"	80	11F-3681-97	5X722	3.15	1.88	1.73	1
D	Uni-Level	3	1 3/8"	3 3/8"	90	11F-3683-97	5X723	3.15	1.88	1.73	1
D	Uni-Level	3 1/2	1 3/8"	4	95	11F-3850-97	5X724	3.55	2.13	1.95	1
D	Uni-Level	4	1 3/8"	4 3/8"	100	11F-3684-97	5X725	3.65	2.19	2.00	1
D	Uni-Level	4	1	4 1/8"	120	11F-3690-97	5X726†	5.00	3.01	2.76	1 1/2
D	Uni-Level	5	1	5 1/8"	130	11F-3691-97	5X727†	5.75	3.44	3.14	2
E	—	3	1 3/8"	3 3/4"	100	11F-1554-97	4X622	3.50	2.11	1.93	1
E	—	4	1	4 1/8"	115	11F-1555-97	4X623	4.45	2.66	2.44	1 1/2
E	—	5	1	5 1/8"	125	11F-1557-97	4X625	5.80	3.48	3.19	2

(*) No. 4X947 threaded stem caster has 1" long stem with 3/8"—24 thread. (**) No. 5X721 thru No. 5X724 uni-level swivel plate casters have 1 3/8" x 2 3/8" plate with 1/2" dia. holes spaced 1 1/2 x 2 3/8" O.C.

(†) Uses optional Brake Kit No. 4X698.

SWIVEL & RIGID OCTAGON-STEM CASTERS

Have Cushionex soft tread rubber wheels permanently bonded to a hard core—plus self-lubricating metal axle bearings. Bright, zinc-coated 2" long octagon stem is 3/4" across flats with three 0.265" dia. holes equally spaced. Swivel stem casters have duo-level swivel ball bearings. Packed 4 to a carton.



No. 5X751

\$3.90

Lots 4

Octagon Stem	Wheel Size Dia.	Wheel Size Wide	Overall Height	Load Rating	Mfr's. Model	Stock No.	Each	Lots 4	Shpg. Wt.
Swivel	4"	1"	4 5/8"	120 lbs.	11F-3695-97	5X749†	\$4.56	\$4.19	1 1/2
Swivel	5	1	5 3/8"	130	11F-3694-97	5X750†	5.30	4.81	2
Swivel	5	1 3/8"	5 5/8"	280	11F-3680-97	5X753†	7.69	7.04	2 1/2
Rigid	4	1	4 3/8"	120	11F-3696-97	5X751	4.26	3.90	1 1/2
Rigid	5	1	5 3/8"	130	11F-3697-97	5X752	5.15	4.72	2

† Use optional Brake Kit No. 4X698.

(††) Uses optional Brake Kit No. 4X825.



Wagner

MEDIUM-DUTY INDUSTRIAL CASTERS

Meet Specifications of Caster & Floor Truck Manufacturer's Assoc. CFT-CI-58

Casters have Durafoam hard tread wheels, except uni-level swivel plate casters have Cushionex soft tread rubber wheels bonded to a hard core. All types have self-lubricating metal axle bearings and zinc-plated metal parts. Threaded stem: $1\frac{1}{16}$ " long with $7\frac{1}{16}$ "—14 thread. Swivel and rigid plate: $2\frac{3}{4}$ x $3\frac{3}{4}$ " with $1\frac{1}{32}$ " dia. holes spaced $1\frac{1}{4}$ x 3" OC.

\$2.47

No. 5X728
Lots 4



TYPICAL APPLICATIONS

Furniture racks, display racks, garment racks, mail carts, maintenance carts, lab equipment, schoolroom furniture, tool chests, television stands, etc.

Type	Swivel Bearings	Wheel Dia.	Size Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Thread-Stem	Duo-Level	3"	$1\frac{1}{4}$ "	$3\frac{3}{8}$ "	210 lbs.	11F-3020-97	4X830†	\$6.45	\$3.87	\$3.57	1
Thread-Stem	Duo-Level	4	$1\frac{1}{4}$ "	$4\frac{1}{16}$ "	220	11F-3017-97	4X831†	7.50	4.49	4.12	$1\frac{1}{2}$
Thread-Stem	Duo-Level	5	$1\frac{1}{4}$ "	$5\frac{1}{16}$ "	235	11F-3018-97	4X832†	11.10	6.66	6.10	2
Swivel-Plate	Duo-Level	3	$1\frac{1}{4}$ "	$3\frac{3}{8}$ "	210	11F-1790-97	4X694†	6.45	3.86	3.53	$1\frac{1}{4}$
Swivel-Plate	Duo-Level	4	$1\frac{1}{4}$ "	$4\frac{1}{16}$ "	235	11F-1552-97	4X620†	8.20	4.92	4.52	$1\frac{1}{2}$
Swivel-Plate	Duo-Level	5	$1\frac{1}{4}$ "	$5\frac{1}{16}$ "	235	11F-1791-97	4X695†	9.00	5.40	4.95	$1\frac{1}{4}$
Swivel-Plate	Uni-Level	3	$1\frac{1}{4}$ "	$3\frac{3}{8}$ "	110	11F-3700-97	5X728	4.45	2.68	2.47	$1\frac{1}{2}$
Swivel-Plate	Uni-Level	4	$1\frac{1}{4}$ "	$4\frac{1}{16}$ "	130	11F-3701-97	5X729†	5.45	3.28	3.02	$1\frac{1}{2}$
Swivel-Plate	Uni-Level	5	$1\frac{1}{4}$ "	$5\frac{1}{16}$ "	150	11F-3702-97	5X730†	6.50	3.91	3.59	$2\frac{1}{2}$
Rigid-Plate	—	3	$1\frac{1}{4}$ "	$3\frac{3}{8}$ "	210	11F-1792-97	4X696	6.00	3.60	3.30	$1\frac{1}{2}$
Rigid-Plate	—	4	$1\frac{1}{4}$ "	$4\frac{1}{16}$ "	235	11F-1556-97	4X624	5.70	3.41	3.13	$1\frac{1}{2}$
Rigid-Plate	—	5	$1\frac{1}{4}$ "	$5\frac{1}{16}$ "	235	11F-1793-97	4X697	7.70	4.63	4.09	$2\frac{1}{2}$

(†) Use optional Brake Kit No. 4X698 listed below.

HOODED FURNITURE & CHAIR SWIVEL CASTERS

Double Ball-Race Swivel Bearings For Long Service Life. Meet Mfrs. Assoc. Spec. CFT-CI-58

\$2.28 Lots 4

No. 5X758



Attractive, long-life casters with two sets of hardened, polished steel balls operating in two separate raceways for noiseless, easy swiveling. Non-marking, Cushionex soft tread rubber wheels are bonded to a hard core. Self-lubricating metal axle bearings. Wagner brand.

BALL WHEEL CASTERS

Smart, new styling adds good looks to home or office furniture. Attractive metal hood over ball wheel is bright chrome plated. Swivel plate measures $1\frac{1}{2}$ x 2" with $13\frac{5}{16}$ " dia. holes spaced $13\frac{1}{16}$ x $1\frac{1}{16}$ " OC. Smooth swivel stem is $7\frac{1}{16}$ " dia. x $1\frac{1}{2}$ " long.

STANDARD WHEEL CASTERS

Bright, chrome-plated steel hood over standard wheel adds a modern, handsome touch to furniture. Friction stem is $7\frac{1}{16}$ " dia. x $1\frac{1}{2}$ " long; smooth stem, $7\frac{1}{16}$ " dia. x $1\frac{1}{2}$ " long; and swivel plate, $1\frac{1}{2}$ x 2" with $13\frac{5}{16}$ " dia. holes spaced $13\frac{1}{16}$ x $1\frac{1}{16}$ " OC.

No. 5X761

\$2.16

Lots 4



Hood over ball wheel is bright chrome plated. Swivel plate measures $1\frac{1}{2}$ x 2" with $13\frac{5}{16}$ " dia. holes spaced $13\frac{1}{16}$ x $1\frac{1}{16}$ " OC. Smooth swivel stem is $7\frac{1}{16}$ " dia. x $1\frac{1}{2}$ " long.

Type	Wheel Diameter	Size Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Smooth Stem Swivel-Plate	2"	Ball	$2\frac{5}{8}$ "	75 lbs.	11F-3699-96	5X757	\$4.45	\$2.67	\$2.46	1
	2"	Ball	$2\frac{1}{2}$ "	75	11F-3698-96	5X758	4.15	2.49	2.28	1
Friction-Stem Swivel-Plate	2	$1\frac{1}{16}$ "	$2\frac{1}{2}$ "	75	11F-3686-96	5X759	4.35	2.60	2.38	1
Smooth Stem Swivel-Plate	2	$1\frac{1}{16}$ "	$2\frac{1}{2}$ "	75	11F-3687-96	5X760	3.90	2.34	2.15	1
	2	$1\frac{1}{16}$ "	$2\frac{1}{2}$ "	75	11F-3685-96	5X761	3.90	2.35	2.16	1

BRAKE KIT FOR SWIVEL CASTERS

Converts swivel stem and swivel plate type casters into brake-type. Holds wheel in fixed position when brake lever is depressed. Foot-actuated "brake" or "release." Wt. 4 oz.

For Casters	Stock No.	Retail	Each	Lots 4
Med. & Hvy. Duty	4X698	\$2.35	\$1.42	\$1.31
Extra Hvy. Duty†	4X825	2.95	1.76	1.62

(†) Also for food service casters.

Thousands of Dealers and Service Men
Depend On Grainger Supply Service
For Pick-ups and Same-Day Shipping



Wagner**HEAVY-DUTY INDUSTRIAL-RATED CASTERS**

Meet Specification & Dimension Standards of Caster & Floor Truck Mfr's. Assoc. CFT-CI-58

**HARD MOLDED WHEEL SWIVEL & RIGID PLATE CASTERS**

Molded Hard Tread Plastic Wheels, Self-Lubricating Metal Axle Bearings. Swivel Plate Casters Have Duo-Level Swivel Bearings

No. 4X785 Duo-level swivel bearing construction allows swivel-plate casters to meet radial and thrust loads of directional changes in heavy-duty use. Have bright, zinc-coated metal parts with Durafoam molded plastic wheels and self-lubricating metal axle bearings. Used for a wide range of applications, including display racks, mail carts, visual-aid equipment, lab equipment, trash containers, etc. Plate size for both swivel and rigid type casters is $3\frac{1}{2} \times 4\frac{1}{2}$ " with $\frac{1}{2}$ " diameter holes spaced $2\frac{3}{4} \times 3\frac{1}{4}$ " OC. Packed 4 to a carton. All except No. 4X941 use optional Brake Kit No. 4X825.

\$3.94

Lots 4

Type	Wheel Size Dia. Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel-Plate	4" 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	300 lbs.	11F-2005-97	4X783	\$8.95	\$5.38	\$4.04	2 $\frac{1}{2}$
Swivel-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	380	11F-2006-97	4X784	10.05	6.03	5.53	3 $\frac{1}{2}$
Swivel-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	460	11F-3238-97	4X941	15.75	9.44	8.67	4 $\frac{1}{2}$
Rigid-Plate	4 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	300	11F-2007-97	4X785	7.15	4.30	3.94	1
Rigid-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	380	11F-2008-97	4X786	8.75	5.24	4.81	2 $\frac{1}{2}$
Rigid-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	460	11F-3239-97	4X942	13.85	8.31	7.62	4

**HIGH-IMPACT PHENOLIC WHEEL PLATE CASTERS**

Roller Bearing Grease Axle for Easy Wheeling with Heavy Loads

No. 4X944 An extremely durable caster built to withstand shock loads up to 480 lbs. For practically any plate-type truck or cart application where load rating is heavy and wheels are subject to severe service. Wheel is made of non-marking, canvas-reinforced phenolic resin and molded under intense heat and pressure. Extra heavy-gauge top plate measures $3\frac{3}{4} \times 4\frac{3}{4}$ " with four $\frac{3}{4} \times \frac{3}{8}$ " slots spaced $2\frac{3}{4} \times 3\frac{3}{8}$ " OC. Duo-level swivel ball bearing construction provides swivel plate casters with maximum maneuverability. Packed 4 to a carton. All except No. 4X944 use optional Brake Kit No. 4X825 listed on previous page. Wagner brand.

\$6.79

Lots 4

Type	Wheel Size Dia. Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel-Plate	4" 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	350 lbs.	11F-3240-97	4X943	\$13.35	\$8.00	\$7.34	3
Swivel-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	400	11F-3036-97	4X835	15.65	9.40	8.63	3 $\frac{1}{2}$
Swivel-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	480	11F-3039-97	4X836	8.30	11.83	10.85	4
Rigid-Plate	4 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	350	11F-3241-97	4X944	12.35	7.41	6.79	3
Rigid-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	400	11F-3037-97	4X837	14.00	8.41	7.71	3 $\frac{1}{2}$
Rigid-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	480	11F-3040-97	4X838	18.20	10.93	10.02	4

**SOFT RUBBER WHEEL PLATE CASTERS WITH THREAD GUARD**

For Smooth Rolling in Contaminated Floor Areas. Load Ratings to 360 lbs.

No. 5X734 Ideally suited for applications where contaminants can reduce caster performance—for example, textile mill equipment, canvas laundry baskets, bakery racks, etc. Non-marking, stain resistant wheels are Cushionex soft tread rubber permanently mounted to a hard core—and have self-lubricating metal axle bearings. Thread guard protects axle bolt from contaminated floors for many hours of smooth rolling with little or no maintenance. Bright, zinc-coated metal parts. Top plate measures $3\frac{3}{4} \times 4\frac{3}{4}$ " with $\frac{1}{2}$ " dia. holes spaced $2\frac{3}{4} \times 3\frac{1}{4}$ " OC. Swivel plate casters have duo-level swivel ball bearings for easy maneuvering, even load distribution and long operating life. Packed 4 to a carton. Wagner brand.

\$4.26

Lots 4

Type	Wheel Size Dia. Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel-Plate	4" 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	200 lbs.	11F-3673-97	5X731	\$9.25	\$5.55	\$5.09	3 $\frac{1}{2}$
Swivel-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	280	11F-3674-97	5X732	10.95	6.56	6.00	4
Swivel-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	360	11F-3676-97	5X733	12.90	7.75	7.11	4 $\frac{1}{2}$
Rigid-Plate	4 1 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	200	11F-3677-97	5X734	7.75	4.65	4.26	3 $\frac{1}{2}$
Rigid-Plate	5 1 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	280	11F-3678-97	5X735	9.70	5.82	5.34	4
Rigid-Plate	6 1 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	360	11F-3679-97	5X736	11.50	6.89	6.32	4 $\frac{1}{2}$

**REPLACEMENT PARTS & ACCESSORIES • PART NUMBER INTERCHANGE LIST—
SEE END OF CASTER SECTION**

Wagner EXTRA HEAVY-DUTY INDUSTRIAL-RATED CASTERS

Meet Specification Standard CFT-CI-58 of Caster & Floor Truck Manufacturers' Association

HIGH-STRENGTH, STEEL-FORK PLATE CASTERS WITH ROLLER BEARING AXLE

Swivel & Rigid Plate Types. Soft-Tread, Aluminum Hub Wheels & Hard-Tread Phenolic Wheels



TYPICAL APPLICATIONS:

Platform trucks, stock picker trucks, heavy-duty dollies, scrap haulers, garbage trucks, stock trucks, material carriers, etc.



No. 5X740
\$10.91

Lots 4

These extra heavy-duty casters are designed and built for long service life in rugged, constant-use applications. Both swivel and rigid plate types are available with soft or hard tread wheels. Soft tread wheels consist of a corrosion-resistant, aluminum hub with permanent mold-on rubber tires. Hard tread wheels are made of Dura-Tex fibre-reinforced phenolic resin, molded under great heat and pressure to produce a wheel that resists wear, impact and shock. Both wheel types have roller bearing axles for easy rolling under heavy load.

High-strength, heat treated steel fork. Top plate and fork have a hard, baked-on gray enamel finish. Swivel plate casters have pre-lubricated, double ball-race swivel bearings for effortless, easy swiveling under heavy loads, and are equipped with a grease fitting for quick, easy re-lubrication. Plate size (both types) 5 x 8" with 3/4" dia. holes spaced 4 1/4 x 4 1/2" OC. Picked 4 to a carton. Wagner brand.



Plate caster with cast-aluminum hub & soft tread mold-on wheel

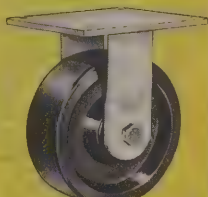


Plate caster with hard tread, fibre-reinforced phenolic wheel

Type	Wheel Tread*	Wheel Dia.	Wheel Width	Overall Height	Load Rating	Mfr's Model	Stock No.	Each	Lots 4	Shpg. Wt.
Swivel-Plate	Hard	5"	2"	6 5/8"	720 lbs.	11F-3582-90	5X737	\$16.34	\$14.95	8 1/2
Swivel-Plate	Hard	6"	2"	7 5/8"	760	11F-3583-90	5X738	18.04	16.56	9 1/2
Swivel-Plate	Hard	8"	2"	9 5/8"	800	11F-3584-90	5X739	23.04	21.19	12
Rigid-Plate	Hard	5"	2"	6 11/16"	720	11F-3576-90	5X740	11.90	10.91	8 1/2
Rigid-Plate	Hard	6"	2"	7 11/16"	760	11F-3577-90	5X741	14.42	13.22	8 1/2
Rigid-Plate	Hard	8"	2"	9 11/16"	800	11F-3578-90	5X742	15.02	13.79	12
Swivel-Plate	Soft	5"	2"	6 5/8"	425	11F-3585-90	5X743	21.01	19.24	8
Swivel-Plate	Soft	6"	2"	7 5/8"	500	11F-3586-90	5X744	21.86	20.06	9
Swivel-Plate	Soft	8"	2"	9 5/8"	600	11F-3587-90	5X745	23.85	21.85	11
Rigid-Plate	Soft	5"	2"	6 11/16"	425	11F-3579-90	5X746	16.68	15.28	7 1/2
Rigid-Plate	Soft	6"	2"	7 11/16"	500	11F-3580-90	5X747	18.64	17.07	8 1/2
Rigid-Plate	Soft	8"	2"	9 11/16"	600	11F-3581-90	5X748	19.06	17.46	11

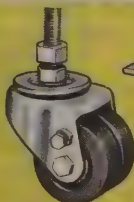
Hard Tread—Fibre-reinforced, phenolic resin wheel. Soft Tread—Aluminum hub with mold-on rubber tire.

LOW PROFILE SWIVEL CASTERS

Hard Tread, Non-Marking Wheels. Wagner Brand

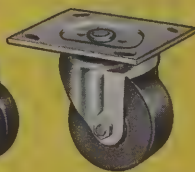
STEM CASTER—Spartan hard tread rubber tandem wheels are non-marking and stain resistant, pivot on point for close radius turns. Have positive-locking, thumb-screw brake, height adjustment nut on stem, and self-lubricating metal axle bearing. Swivel-post rides on a level ball bearing for easy swiveling, even load distribution and long service life. Height to top of adjustable hex nut, 3 3/8". Stem is 2 1/2" long with 1/2"—13 thread. Ideally suited for electrostatic duplicating machines, electronic computers, and similar equipment.

PLATE CASTER—High impact, phenolic resin wheel is non-marking and stain resistant, has roller bearing axle. Heavy-gauge swivel plate rides on a duo-level ball bearing for easy swiveling, even load distribution and long service life. Plate size 3 3/4 x 4 3/8" with four 3/4x3/8" slots. Used on dollies, industrial trucks, etc.



SWIVEL STEM
\$9.11

Lots 4



SWIVEL PLATE
\$9.13

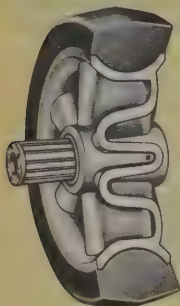
Lots 4

Type	Wheel Dia.	Wheel Size	Overall Height	Load Rating	Mfr's Model	Stock No.	Each	Lots 4	Shpg. Wt.
Swivel-Stem	3"	1 1/16" ea.	3 3/8"	300 lbs.	11F-3243-97	4X946	\$9.95	\$9.11	1 1/2
Swivel-Plate	3"	1 1/4"	3 3/8"	500	11F-3242-97	4X945	10.46	9.13	2 1/2

SEE WARRANTY INFORMATION ON PAGE 684

Wagner**HIGH-IMPACT RADIAL-DISC CASTERS**

Soft Tread, Non-Marking, Stain Resistant Wheels. Meet Mfrs. Assoc. Spec. CFT-CI-58. Wagner Brand



Cross section shows spoke construction of high density, polyethylene radial disc. Automotive-type roller bearing axle supplied with 5 x 1½" swivel stem and plate casters only.



SWIVEL-PLATE
No. 5X762

\$2.93 Lots 4



RIGID-PLATE
No. 5X764

\$2.52 Lots 4



SWIVEL-STEM
No. 4X951

\$8.45 Lots 4

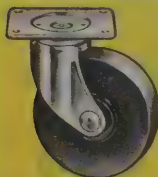
Soft tread wheels are impregnated with an anti-bacteriostatic compound and bonded to a radial disc wheel. Wheel is molded from high-density, linear polyethylene plastic to combine light weight with high impact resistance. Swivel stem and plate 5 x 1½" casters have automotive-type, roller bearing axles and chrome-plated forks. Other types and sizes have self-lubricating metal axle bearings and zinc-coated forks. All swivel stem and plate casters have duo-level swivel bearings for easy maneuvering under both radial and thrust loads. Plate measurements: 4 x 1" and 5 x 1" swivel and rigid plate casters—2¼ x 3¾" plate with 1½" dia. holes spaced 1¼ x 3" O.C. 5 x 1½" swivel plate—3¾ x 4½" zinc-coated plate with four ¾ x ¾ slots. Swivel stem is 2" long with 7/16"-14 thread. Packed 4 to a carton. Nos. 5X762 and 5X763 use optional Brake Kit No. 4X698. Nos. 4X952 and 4X951 use Brake Kit No. 4X825.

Type	Wheel Bearings	Data Dia.	Wide	Overall Height	Load Rating	Mfr's Model	Stock No.	Each	Lots 4	Shpg. Wt.
Swivel-Plate	Self-Lube	4"	1"	4¾"	120 lbs.	11F-3688-97	5X762	\$3.19	\$2.93	1½
Swivel-Plate	Self-Lube	5	1	5¾"	130	11F-3689-97	5X763	3.59	3.30	1½
Swivel-Plate	Roller	5	1½	6½"	210	11F-3249-96	4X952	10.14	9.30	2½
Rigid-Plate	Self-Lube	4	1	4¾"	120	11F-3692-97	5X764	2.75	2.52	1½
Rigid-Plate	Self-Lube	5	1	5¾"	130	11F-3693-97	5X765	3.28	3.01	1½
Swivel-Stem	Roller	5	1½	5¾"	210	11F-3248-96	4X951	9.21	8.45	1½

FOOD SERVICE ROLLER BEARING CASTERS

Non-Marking, Stain Resistant Wheels. Chrome-Plated Forks. Meet Mfrs. Assoc. Spec. CFT-CI-58

Designed and made specifically for replacement of original equipment on grocery carts, bakery carts and other food service equipment. Duo-level swivel bearing construction provides excellent maneuverability under radial and thrust loads. Banana-style fork adds rigidity, strength and shock load protection. Both fork and swivel raceway are fully chrome-plated for many washings without showing the effects of corrosion.



SWIVEL-PLATE
No. 5X755

\$6.81 Lots 4



SWIVEL-STEM
No. 5X754

\$6.39 Lots 4



Soft Cushionex tread rubber wheels are permanently bonded to a hard core for noiseless operation. Wheels feature non-marking, stain resistant easy-to-clean qualities, and are donut-shaped to prevent pick up of contaminants. Automotive type, roller bearing greased axle provides easy movement and trouble-free operation under maximum loads. Plate is 3¾ x 4½" with four ¾ x ¾ slots spaced 2½ x 2½" to 3 x 3½" O.C. Stem is 1½" long with 1½"-13 thread. Packed 4 to a carton. All use optional Brake Kit No. 4X825.

Type	Wheel Size	Wide	Overall Height	Load Rating	Mfrs. Model	Stock No.	Each	Lots 4	Shpg. Wt.
Swivel-Plate	4"	1½"	4½"	170 lbs.	11F-3670-96	5X755	\$7.42	\$6.81	3½
Swivel-Plate	5	1½"	5½"	190	11F-3671-96	5X756	7.85	7.21	3½
Swivel-Stem	4	1½"	4¾"	170	11F-3672-96	5X754	6.98	6.39	3
Swivel-Stem	5	1½"	5¾"	190	11F-3035-96	4X834	8.61	7.90	3

Bassick STEEL WHEEL SWIVEL & RIGID CASTERS

Semi-Steel Wheels for Medium Duty Load Capacity on Rough or Chip-Littered Floors

Low cost casters for use on parts bins, dollies, portable conveyors, etc. Semi-steel—steel/cast-iron combination, wheels withstand abuse from rough or chip-littered floors. 2 and 3" dia. wheels have self-lubricating metal axle bearings; 4" dia. wheels are available with self-lubricating metal axle bearings; Nos. 5X927, 5X929, or roller bearings; Nos. 5X928, 5X930. Swivel casters have single-level, large diameter ball bearing swivel for long life and easy maneuvering.

TOP PLATE DIMENSIONS

SWIVEL PLATE				RIGID PLATE			
Stock No.	Overall Size	Bolt Hole Spacing	Bolt Dia.	Stock No.	Overall Size	Bolt Hole Spacing	Bolt Dia.
5X923	1 7/8 x 2 5/8"	1 1/2 x 2 1/8"	1/4"	5X924	1 7/8 x 2 5/8"	1 1/2 x 1 7/8"	1/4"
5X925	3 3/8 x 4 1/8"	2 3/8 x 3 1/8"	5/16"	5X926	2 1/2 x 5"	1 1/4 x 4"	5/16"
5X927	4 x 5"	3 x 4"	3/8"	5X929	3 1/4 x 6 1/2"	2 x 5"	3/8"
5X928	4 x 5"	3 x 4"	3/8"	5X930	3 3/8 x 6 1/2"	2 x 5"	3/8"

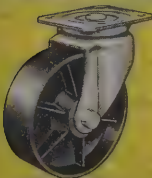


SWIVEL PLATE
\$1.53 No. 5X923
 Lots 4

Type	Wheel Diameter	Size Wide	Overall Height	Load Rating	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel-Plate	2"	1 1/2"	2 1/2"	125 lbs.	5X923	\$2.06	\$1.63	\$1.53	1
Swivel-Plate	3"	1 3/4"	3 1/16"	250 lbs.	5X925	5.11	4.07	3.82	2
Swivel-Plate	4"	1 1/2"	5"	350 lbs.	5X927	9.83	7.82	7.33	4 1/2
Swivel-Plate	4"	1 1/2"	5"	350 lbs.	5X928	14.50	11.48	10.74	4 1/2
Rigid-Plate	2"	1 1/2"	2 1/2"	125 lbs.	5X924	2.03	1.62	1.52	8 oz.
Rigid-Plate	3"	1 3/4"	3 1/16"	250 lbs.	5X926	4.45	3.53	3.31	1 1/4
Rigid-Plate	4"	1 1/2"	5"	350 lbs.	5X929	8.31	6.64	6.22	3 1/2
Rigid-Plate	4"	1 1/2"	5"	350 lbs.	5X930	13.00	10.32	9.68	3 1/2

Bassick STEEL & POLYURETHANE WHEEL CASTERS

Swivel & Rigid Plate. Extra Heavy Duty for a Wide Variety of Hand-Pushed Applications



SEMI-STEEL

No. 5X918 For industrial platform trucks, portable racks, trash containers, warehouse dollies, etc.
\$13.69
 Lots 4 Available with semi-steel—steel/cast-iron combination, wheels for rough or chip-littered floors or polyurethane wheels for easy rolling, floor protection and high impact resistance under heavy loads. All wheels equipped with roller bearings for smooth rolling with minimum effort. Lubrication fittings (incl.) for wheel bearing and double ball race swivel. Plate size all models: 3 3/4 x 4 5/8" overall, for 3/8" bolt hole spaced 2 5/8 x 3 3/8" slotted to 3 x 3".



POLYURETHANE

Type	Type	Wheel Diameter	Size Wide	Overall Height	Load Rating	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel-Plate	Steel	5"	2"	6 1/2"	700 lbs.	5X917	\$22.98	\$18.41	\$17.25	8
Swivel-Plate	Poly	5"	2"	6 1/2"	600 lbs.	5X915	25.36	20.17	18.86	6
Swivel-Plate	Steel	6"	2"	7 3/8"	700 lbs.	5X921	23.92	19.11	17.91	8
Swivel-Plate	Poly	6"	2"	7 3/8"	600 lbs.	5X920	27.42	21.91	20.53	10
Rigid-Plate	Steel	5"	2"	6 1/2"	700 lbs.	5X918	18.25	14.61	13.69	6
Rigid-Plate	Poly	5"	2"	6 1/2"	600 lbs.	5X916	20.61	16.49	15.48	7
Rigid-Plate	Steel	6"	2"	7 3/8"	700 lbs.	5X922	19.28	15.48	14.50	7
Rigid-Plate	Poly	6"	2"	7 3/8"	600 lbs.	5X919	23.17	18.37	17.22	5

V-GROOVED WHEEL CASTERS

Steel Wheels. Swivel & Rigid Plate. 600 Lb. Cap. for Equip. Used on Inverted Angle Iron Track

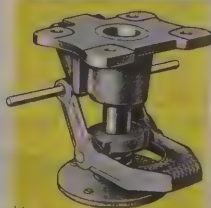


For production line fixtures and dollies riding on angle iron tracks. Flat tread on both sides of V-groove for rolling on flat floors. 4 x 1 1/2" steel wheels with roller bearings. Double ball race swivel. Ht. 5 1/4". Plate 3 3/4 x 4 5/8" for 3/8" bolt spaced 2 5/8 x 3 3/8" slotted to 3 x 3". Wheel groove 3/8 W x 7/16" D. Bassick brand.

Type	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Swivel	5X931	\$28.00	\$22.36	\$20.98	6 1/2
Rigid	5X932	22.12	17.65	16.53	5 1/2

POSITION FLOOR LOCKS

For Castered Equipment in Factory, Warehouse



Position lock allows castered equipment to be locked in place by simple foot pressure. Locking action takes place when friction face is pressed against the floor, creating a force of 70 to 100 lbs. Mtg. plate 3 1/16 x 5 5/8" for 3/8" dia. bolt spaced 2 5/8 x 3 3/8" (No. 5X933); 4 1/2 x 6" for 1/2" dia. bolt spaced 2 7/16 x 4 1/16" (No. 5X934). Bassick brand.

Mount. Height	Retract. Height	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
5 1/2"	4 1/16"	5X933	\$33.00	\$26.20	\$24.60	8
7 1/4"	6 1/4"	5X934	36.39	28.90	27.13	10

SEE WARRANTY INFORMATION ON PAGE 684

5 THRU 8" DIAMETER REPLACEMENT CASTER WHEELS WITH SOFT TREAD



No. 5X777

Mold-On Tire, Cast-Aluminum Hub Wheels
\$7.81

Lots 4

Soft tread rubber tire molded to attractive 2" wide cast-aluminum spoke wheel for noiseless operation in heavy duty use. Has long-life roller bearing axle for smooth rolling under exceptionally heavy loads. Hub width is 2¼", fits ¾" axle.

Wheel Dia.	Load Rating	Mfrs. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
5	350 lbs.	11F-3840-94	5X777	\$14.20	\$8.52	\$7.81	1½
6	410	11F-3841-94	5X778	17.35	10.40	9.45	3½
8	500	11F-3842-94	5X779	21.55	12.94	11.87	4½

BRAKE KIT FOR SWIVEL CASTERS

Converts swivel stem and swivel plate type casters into brake-type. Holds wheel in fixed position when brake lever is depressed. Foot-actuated "brake" or "release." Wt. 4 oz.

For Casters	Stock No.	Retail	Each	Lots 4
Med. & Hvy. Duty	4X698	\$2.35	\$1.42	\$1.31
Extra Hvy. Duty†	4X825	2.95	1.76	1.62

(†) Also for all food service casters on previous page.

ZINC-PLATED STEM CASTER SOCKETS—For Casters With 7/16" Diameter Stem


WOOD GRIP SOCKET

Wood Grip

46c

TUBING SOCKET

Wood grip socket is for friction ring casters, and mounts in ½" dia. x 2" deep hole. Tube socket is for smooth stem casters on chairs, and fits ⅞" ID tubing.

Type	For This Type Stem Caster	Stock No.	Retail	Each	Shpg. Wt.
Wood Grip	Friction Ring	4X950	\$1.25	\$.46	½ oz.
Tube	Smooth Stem	4X823	1.25	.46	½ oz.

CASTER PART NUMBER INTERCHANGE LIST—SEE NEXT PAGE FOR DETAILS

1½ & 2 TON FLOOR-SERVICE HYDRAULIC JACKS

1½ Ton Jack Lifts to 20" Height, 2 Ton Unit to 24½" Height


 No. 3Z353
\$149.71

Lots 3

1½-TON

 90-Day Limited Warranty
 See Limited Warranty Policy
 in Index

Dayton

 No. 3Z416
\$223.80

Lots 3

2-TON

Heavy duty hydraulic service jacks lift vehicles, implements, machinery, etc. 1½-ton jack has 48" tubular twist handle for locking and lowering lifting ram; 3½" front wheels. 2-ton jack has 42" formed-steel "T" handle with built-in control

knob; 4" front wheels. Other features common to both units include overload safety valve and release valve, heavy steel side plates, malleable iron lift ram, and 2" ball bearing casters at rear. Red enamel finish. Dayton brand.

Maximum Capacity	Ram Height Lowered	Ram Height Raised	Chassis Dimensions H	Chassis Dimensions W	Chassis Dimensions L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1½ Tons	37½"	20"	5½"	13¾"	26¾"	3Z353	\$231.55	\$159.55	\$149.71	90
2 Tons	4"	24½"	6¾"	13¾"	42"	3Z416	340.35	238.25	223.80	144

SHOP AND MATERIAL HANDLING EQUIPMENT STOCKED

This MotorBook includes a large and varied line of widely-used material handling and shop equipment, all available from your Grainger Sales Office/Warehouse at low cost. All equipment offered is designed to either help your people work more



efficiently or store material more systematically. The modern equipment available from Grainger pays for itself in use. See Index for products needed; chances are you'll find them and many more that can help make your operation more efficient.

CASTER PART NUMBER INTERCHANGE GUIDE

Converts Bassick, Faultless, Colson & Wagner Part Nos. to Closest Comparable Grainger Stock Nos.

HOW TO USE: Simply find the column that lists your current caster brand in numerical sequence, and locate the part number you're now

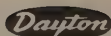
purchasing. Immediately right of that number is the stock number of nearest W.W. Grainger Inc. equivalent, listed on preceding pages.

Part No.	Stock No.	Part No.	Stock No.	Part No.	Stock No.	Part No.	Stock No.
	GRAINGER	BASSICK	GRAINGER	COLSON	GRAINGER	WAGNER	GRAINGER
2616	5X721	15706-RP	4X621	2-4056-43	5X731	2305406-0199	4X837
3089-1	4X696	15716-RP	4X625	2-4056-53	4X783	2306004-1100	5X736
3616	5X728	15716-X119RP	5X752	2-5008-43	5X735	2306009-0100	4X942
3689-1	4X694	FAULTLESS	GRAINGER	2-5008-53	4X786	2306406-0199	4X838
3689-XTS	4X830	94089-R	5X758	2-5056-43	5X732	2403009-0105	4X830
3398-2	4X945	94089-R	5X761	2-5056-53	4X784	2405004-0174	5X753
1086-1	5X734	121-2	5X721	3-308-55	4X837	4202004-0100	5X721
1089-1	4X785	121-2½	5X722	3-527-55	4X835	4203004-0100	5X723
14089-2.1	4X944	121-3	5X728	3-508-55	4X838	4204004-0100	5X725
616	5X729	121-4	5X729	3-627-55	4X836	4207004-0100	5X722
686-1	5X731	121-5	5X730	4-5408-339	5X740	4209004-0100	5X724
689-XTS	4X831	127-3	4X694	4-5408-439	5X746	4402004-0101	4X948
689-1	4X783	127-4	4X620	4-5409-339	5X737	4402004-0102	4X833
14689-2.1	4X943	127-5	4X695	4-5409-439	5X743	4402004-0189	4X947
086-1	5X735	421-4	4X783	4-6408-339	5X741	4402004-0200	5X761
089-1	4X786	421-4TG	5X731	4-6408-439	5X747	4902004-0201	5X757
1089-2.1	4X837	421-5	4X784	4-6408-639	5X747	4902004-0202	5X760
616	5X730	421-5TG	5X732	4-6409-339	5X738	5103406-0199	4X945
686-1	5X732	421-6	4X941	4-6409-439	5X744	5305406-0600	5X740
686-X119	5X753	421-6TG	5X733	4-6409-639	5X744	5305514-0600	5X746
689-1	4X784	527-3	4X696	4-8498-339	5X742	5306406-0600	5X741
589-XTS	4X832	527-4	4X624	4-8498-439	5X748	5306514-0600	5X747
5689-2.1	4X835	527-5	4X697	4-8498-639	5X748	5308406-0600	5X742
5986-R2	5X746	918-5	5X743	4-8499-339	5X739	5308514-0600	5X748
5988-2	5X740	918-6	5X744	4-8499-439	5X745	5403709-2118	4X946
5996-R2	5X743	918-8	5X745	4-8499-639	5X745	5805406-0600	5X737
5998-2	5X737	929-3	4X945	2S-517-319	4X952	5805514-0600	5X743
86-1	5X736	929-6	5X738	1-2251-42-2	4X948	5806406-0600	5X738
5089-1	4X942	931-5	5X737	1-2254-42-50	4X947	5806514-0600	5X744
5089-2.1	4X838	931-6	5X738	1-3054-42	4X691	5808406-0600	5X739
86-1	5X733	931-8	5X739	1-3254-43	4X938	5808514-0600	5X745
3689-1	4X941	4721-4	4X785	1-4251-43	4X939	6103004-0100	4X618
3689-2.1	4X836	4721-4TG	5X734	1-4254-43	4X939	6104004-0100	4X619
986-R2	5X747	4721-5	4X786	1-4270-43	4X749	6104810-0100	5X762
988-2	5X741	4721-5TG	5X735	1-4280-43	4X752	6105004-0100	4X621
996-R2	5X744	4721-6	4X942	1-5251-43	4X940	6105810-0100	5X763
998-2	5X738	4721-6TG	5X736	1-5254-43	4X940	6204004-0100	5X726
56-X2CAR	5X757	971-5	5X746	1-5270-43	4X750	6205004-0100	5X727
66-CHR	5X758	9718-6	5X747	1-5280-43	4X752	6303004-0100	4X622
986-R2	5X748	9718-8	5X748	2-4008-451-1	4X624	6304004-0100	4X623
988-2	5X742	9731-5	5X740	2-4056-451-1	4X620	6304810-0100	5X764
996-R2	5X745	9731-6	5X741	2-5008-45-1	4X700	6305004-0100	4X625
998-2	5X739	9731-8	5X742	2-5008-451-1	4X697	6305810-0100	5X765
66-GX2RP	4X948	EK4521	5X749	2-5056-45-1	4X699	6403004-0101	4X938
96-X3	4X833	EK4522	5X750	2-5056-451-1	4X695	6403004-0105	4X939
46-X2CHR	5X759	EP4520	4X618	2-5070-43	5X753	6404004-0101	4X939
46-X3CHR	5X760	EP4521	4X619	4-4128-319	4X944	6404004-0105	4X692
56-CHR	5X761	EP4522	4X621	4-4129-319	4X943	6404004-0174	5X749
S62B1CHR	5X755	ESA489R	5X760	4-5128-319	4X837	6405004-0101	4X940
S662BXTS	5X754	ESA439	4X833	4-5129-319	4X835	6405004-0105	4X693
S662B1C	4X834	EW4889R	5X757	4-6128-319	4X838	6405004-0174	5X750
S66W2B1C	5X756	EW489R	5X759	4-6129-319	4X836	6704004-0174	5X751
S6W2B1C	4X952	EW459	4X948	WAGNER	GRAINGER	6705004-0174	5X752
S6W2B1CXTS	4X951	EW4520	4X938	1104410-0299	5X755	7802004-0200	5X758
Socket	4X950	EW4521	4X939	1105410-0299	5X756	7902004-0201	5X757
—	—	EW4522	4X940	1105810-0299	4X952	9104009-0100	4X620
3 Socket	4X823	EY459XTS	4X947	1404410-0210	5X754	9105009-0100	4X695
8696-X2RP	4X938	G427-3	4X830	1405410-0210	4X834	9105310-0100	4X699
8696-XTSRP	4X947	G427-4	4X831	1405810-0210	4X951	9203004-0100	5X728
706-RP	4X618	G427-5	4X832	2103009-0100	4X694	9204004-0100	5X729
16-RP	4X622	L931-5	4X835	2104406-1100	5X731	9205004-0100	5X730
69-RP	4X624	L931-6	4X836	2104406-0100	4X783	9303009-0100	4X696
79-RP	4X620	L9731-5	4X837	2105004-1100	4X943	9304009-0100	4X624
96-X2RP	4X939	L9731-6	4X838	2105004-1100	5X732	9305009-0100	4X697
96-X119RP	5X749	RK4521	5X751	2105009-0100	4X784	9305310-0100	4X700
8696-XTSRP	4X692	RK4522	5X752	2105406-0199	4X835	9404009-0105	4X831
706-RP	4X619	RP4520	4X622	2106004-1100	5X733	9406009-0105	4X832
16-RP	4X623	RP4521	4X623	2106009-0100	4X941	1796 Brake Kit	4X698
86-X119RP	5X751	RP4522	4X625	2106406-0199	4X836	2127 Socket	4X823
69-1RP	4X697	—	—	2304004-1100	5X734	2277 Socket	4X950
79-RP	4X695	125 Socket	4X823	2304009-0100	4X785	—	—
96-X2RP	4X940	COLSON	GRAINGER	2304406-0199	4X944	3038 NSF Kit	4X824
96-X119RP	5X750	2-4008-43	5X734	2305004-1100	5X735	3042 Brake Kit	4X825
8696-XTSRP	4X693	2-4008-53	4X785	2305009-0100	4X786	—	—

CASTER REPLACEMENT WHEELS INTERCHANGE GUIDE

SICK	GRAINGER	FAULTLESS	GRAINGER	COLSON	GRAINGER	WAGNER	GRAINGER
6009	5X775	4-2 x 7/8	5X775	1-2-42	5X775	31002	5X768
5013	5X766	4-3 x 7/8	5X766	1-3-42	5X766	31014	5X770
5014	5X768	4-4 x 7/8	5X768	1-4-43	5X768	31030	5X766
5015	5X770	4-5 x 7/8	5X770	1-5-43	5X770	31070	5X767
5705	5X777	18-5 x 1 1/2	5X777	2-4-53	5X769	31082	5X769
5706	5X778	18-6 x 2	5X778	2-5-53	5X771	31094	5X771
5748	5X779	18-8 x 2	5X779	3-5-54	5X767	31099	5X775
3253	5X776	27-3 x 1 1/4	5X767	3-3-319	5X776	31242	5X772
1103	5X767	27-4 x 1 1/4	5X772	4-4-511	5X772	31246	5X773
1104	5X772	27-5 x 1 1/2	5X773	4-6-619	5X778	31267	5X774
1115	5X773	27-4 x 1 1/4	5X769	5-8-639	5X779	3127	5X776
1124	5X769	27-5 x 1 1/4	5X771	25-5-511	5X773	31388	5X779
1125	5X771	31-3 x 1 1/4	5X776	25-6-511	5X774	31389	5X778
1146	5X774	—	—	—	—	31390	5X777

SEE WARRANTY INFORMATION ON PAGE 684



6 to 16" DIAMETER WHEELS

For Lawn Mowers, Garden Tractors, Farm Equipment & Low Speed Industrial Vehicles

No. 22102

\$1.43

Lots 4



A



B



C



D

A ROTARY LAWN MOWER WHEELS

Same type wheels used on most rotary lawn mowers, golf carts, and other portable lawn and garden equipment. Offset welded steel disc-type hub fits snugly against lawn mower—wheel doesn't interfere with flush trimming. Oilite axle bearings, semi-pneumatic tubeless tires with distinctive diamond tread. Red finish on hub.

Tire Size	Dia.	Lbs. Capacity	Hub Width	Fits Axle	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6 x 1.50	6"	50	1 1/4"	1 1/4"	22102	\$2.25	\$1.56	\$1.43	1
7 x 1.50	7	55	1 1/2"	1 1/2"	22103	2.85	2.00	1.83	1 1/2
8 x 1.75	8	60	1 1/2"	1 1/2"	22104	3.40	2.34	2.20	2 1/2

B LOW-SPEED, LIGHT-DUTY BALL BEARING WHEELS

Widely used on light industrial vehicles, farm equipment, garden carts, golf carts, coaster wagons, trucks, lawn mowers, portable air compressors and similar units that move up to 5 M.P.H. Narrow welded steel disc-type hub construction. Semi-pneumatic tubeless tires with rugged rib-type tread. Ball bearing axle, red finish on hub.

Tire Size	Dia.	Lbs. Capacity	Hub Width	Fits Axle	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6 x 1.50	6"	50	1 1/4"	1 1/4"	12850	\$2.70	\$1.89	\$1.73	1
8 x 1.75	8	150	2 1/4"	1 1/2"	12849	4.60	3.20	2.93	2
10 x 1.75	10	100	1 1/2"	1 1/2"	12848	4.95	3.48	3.23	3
12 x 1.75	12	100	1 1/2"	1 1/2"	22101	6.80	4.75	4.37	5

C MEDIUM-DUTY INDUSTRIAL BALL BEARING WHEELS

For new and replacement use on heavy industrial and farm vehicles at speeds up to 8 M.P.H. Also used by service stations, garages, shops, factories, etc. Welded steel, standard lug hub construction. Semi-pneumatic tubeless tires with rib-type tread. Ball bearing axle. Red finish on hub.

Tire Size	Dia.	Lbs. Capacity	Hub Width	Fits Axle	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6 x 2.00	6"	200	2 1/4"	1 1/2"	22105	\$6.80	\$4.73	\$4.41	3
8 x 2.50	8	250	2 1/4"	1 1/2"	22106	9.80	6.85	6.28	5 1/2
10 x 2.75	10	185	2 1/4"	1 1/2"	12847	9.85	6.85	6.28	5
12 x 3.00	12	150	3 1/4"	1 1/2"	22145	16.10	11.22	10.46	9

D HEAVY-DUTY, PNEUMATIC BALL BEARING WHEELS

Standard equipment on heavy-duty, low speed (less than 15 MPH) vehicles—rotary mowers, garden tractors, feed carts, wheelbarrows, golf carts, pony carts, etc. Tire has sawtooth tread, pneumatic tube. Steel wheel with drop-center rim. Grease-packed ball bearing axle with grease fitting for lubricating. Red finish on hub. Individually cartoned.

Tire Size	Ply	Dia.	Lbs. Capacity	Hub Width	Fits Axle	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
4.10/3.50 x 4	2	10"	330	3 1/4"	1 1/2"	22273	\$20.15	\$14.03	\$13.08	6 1/2
4.80/4.00 x 8	2	16	575	6	1 1/2"	22107	24.55	16.91	15.47	10
4.80/4.00 x 8	2	16	575	6	1 1/2"	22108	24.90	17.40	15.93	10

Get Delivery from Stock on over 95% of the Products in this MotorBook
Grainger Availability and Service Help You Sell More and Net More Profits

BOTTLED DRINKING WATER COOLER

No Plumbing Required. Accepts Standard Water Bottles Available Locally

\$153.76

andsome compact bottled water cooler has 1
PH capacity; serves 30 persons per hour, even
ith room temperature at 90°F. Recessed, no-
rip, pushbutton-type polypropylene faucet is
cated 10" above drain to allow filling pitchers.
o plumbing needed; has lift-out 1½ quart
aste container. Unit can be placed anywhere
5V ordinary house current is available. Vinyl
ottle ring accepts standard bottles, available
cally. Provision for mounting cup dispenser,
ot included, at left or right. 1/20 HP, sealed
mpressor, overload protected. Quiet, static-
pe condenser. Adjustable thermostat, 3½
art stainless steel cooling reservoir. 20 ga.
osphatized steel cabinet, 37 H, 12½ W, 13" D.
indalwood finish, woodgrain vinyl and satin
uminum trim. 115V, 60 Hz, 1.8 amps. UL, CSA
ted. Cordley brand (CBE-1). Shpg. wt. 60 lbs.
p. 3H111. Bottled Water Cooler. Retail \$219.65.
ch.....\$153.76

CORDLEY

Measures Only
37 H x 12½ W x 13" D

1 GPH Capacity
Serves 30 Persons
Per Hour



4 & 1½"W MASKING TAPE

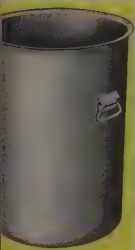


Has 25 oz. adhesion per
inch of width, 20 lbs. ten-
sile strength per square
inch. Tape peels off clean.
Meets Federal Specification
UU-T-106C, Type 1. Roll of
tape measures 60 yards
long for both widths.
American brand.

ape idth	Stock No.	Retail	Each	Lots 6	Lots 12	Shpg. Wt.
4"	4X225	\$1.12	\$0.78	—	\$0.70	9 oz.
½"	4X958	1.98	1.49	\$1.39	—	1 lb.

55-GALLON PLASTIC DRUM

us. Type. Holds 400 Lbs. Seamless Construction
ade of High Density Rustproof Polyethylene



Lightweight, heavy duty
55-gal. drum for factories,
warehouses, shops, offices,
etc. Seamless, one-piece
molded construction. Rigid
sidewalls with high impact
strength to resist denting.
Extra-thick bottom holds
up to 400 lbs. Steel handles
are riveted to 4 x 4½" steel
back plates. Oversize han-
dles make it easy to slip
gloved hands into openings.
Drum tapers from 24" dia.
at top to 21½" at bottom
for stack storing. Ht. 31¾".
High density rustproof
polyethylene with gray
y below for mobility. Shpg. wt. 18 lbs.

sh. Order with No. 3W039 or No. 3W040 drum
y below for mobility. Shpg. wt. 18 lbs.
3H240. 55-Gal. Plastic Drum. Retail \$39.95.
h \$32.03; lots 2.....\$29.89

PLASTIC TRASH CAN LINERS

1½, 2 and 3 Mil Thick. 30, 33 and 55 Gallon Sizes
Fully Gusseted for Extra Strength

Twist Ties Included



No. 5H296
No. 5H297
No. 5H298



No. 5X951

Heavy-duty plastic liners for industrial, com-
mercial and residential use. Seams are heat-
sealed for extra strength. Bags tear off con-
veniently, one-at-a-time from roll on Nos. 5H296,
5H297 and 5H298; pull one-at-a-time from carton
on No. 5X951. Twist ties included.

No. 5H296. Commercial/Industrial Bags. 2 Mil,
33 gallon capacity. 100 bags per roll. 33 W, 40" L.

No. 5H297. Lawn-Leaf Bags, 1½ Mil, 33 gallon
capacity. 50 bags per roll. 33 W, 40" L.

No. 5H298. Coml./Residential Bags. 1½ Mil, 30
gallon capacity. 50 bags per roll. 30 W, 37" L.

No. 5X951. Commercial/Industrial Bags for No.
3H240 drum (listed at left), or any 55-gallon
drum. 3 Mil, 55 gallon capacity. 50 bags per
carton. 38 W, 60" L.

Gal. Size	Mil	Stock No.	Retail	Each, Roll	Each, Ctn.	Shpg. Bags	Wt.
33	2	5H296	\$20.72	\$15.54	—	100	19
33	1½	5H297	8.00	6.00	—	50	7
30	1½	5H298	6.65	4.99	—	50	6
55	3	5X951	25.00	—	\$19.01	50	23

PHONE PICK-UP ORDERS—SAVE TIME

800 & 1200 LB. DRUM DOLLIES

No. 3W039
\$22.63

Lots 3

Circular welded steel dollies for moving 55-gallon drums
of liquids, parts, scrap metal, etc. Four heavy duty, duo-
level ball bearing swivel casters fit into mounts on outside
of circular frame. Wagner brand (18F400090, 18F400190).



Dolly Capacity	Dolly Size Dia.	Dolly Ht.	Caster Wheels Size	Type	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
800 Lbs.	23½"	6¼"	3x1¼"	Molded Plastic	3W039	\$40.65	\$24.38	\$22.63	19
1200	23½"	6½"	3x1¼"	Phenolic Resin	3W040	61.40	36.83	34.20	21

SEE WARRANTY INFORMATION ON PAGE 684

GENIE AUTOMATIC GARAGE DOOR OPENERS

Radio-Operated Systems Open and Close Overhead Doors up to 18 Ft. Wide

Push transmitter button in car and garage door automatically unlocks, opens and light goes on. A second push reverses functions. Units operate sectional, solid-jamb and pivot-type overhead doors. Easily installed; only 2½" headroom required above door. Drive moves door 7" per second. Safety control stops door and reverses direction any time door strikes obstruction. Has emergency release if power fails. Powered by totally enclosed 1075 RPM, 115V, 60 Hz capacitor-start motor with automatic reset thermal protection. Solid state 24V, 60 Hz receiver activates door opener. Solid state VHF transmitter uses 9V battery. Operator comes complete with one transmitter, receiver, necessary hardware, wire, push-button switch for operating door non-electronically, and instructions. UL listed, CSA approved.

CHAIN DRIVE 1/4 HP UNIT—For doors up to 7' H x 18' W. Has strong lightweight aluminum rail and pre-stressed roller chain that reduces chain stretch and adjustments. Overhead light goes on when door opens, shuts off when door is fully closed. Shipped partially assembled.

DELUXE WORM DRIVE 1/3 HP UNIT—For doors up to 7½' H x 18' W. Precision machined worm screw is encased in aircraft quality aluminum housing. Moves on ball-type thrust bearing. Overhead light goes on when door is raised, shuts off 2 minutes after door has fully closed.

CHAIN DRIVE
\$113.20



DELUXE WORM DRIVE
\$164.05

Both come with Transmitter, Receiver and Pushbutton Switch

Type	HP	Amp	L	Dimensions W	D	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Chain Drive	1/4	3	9'11½"	9½"	8½"	GS 200SR	3Z498	\$148.95	\$113.20	42
Deluxe Worm-Drive	1/3	6	9'11½"	13½"	5"	GS 450	7Z370	\$214.95	\$164.05	50

KEY LOCK SWITCH

For all door openers. Installs in door jamb for control of opener from outside. 2 keys. Wt. 6 oz. No. 2Z265. Retail \$8.95. Each \$5.00

EXTRA TRANSMITTER

For No. 7Z370 or 3Z498 only. Specify frequency on radio receiver nameplate. Shipped prepaid from Chicago. Wt. ½ lb. No. 2Z375. Ea. \$19.95; lots 3, \$18.20



COMMERCIAL & INDUSTRIAL DOOR OPENING SYSTEMS

Push-Button Operated Chain Drive Systems for 10 or 14 Ft. High Doors up to 280 Sq. Foot

Telectron commercial systems are chain driven draw bar type, designed to operate sectional overhead doors up to 280 sq. ft. in size.

Requires only 3" of head room. Drive shafts have permanently lubricated ball bearings. Powered by 1/2 HP, 115V, single phase permanent split capacitor motor with manual reset thermal protection. Belt drive moves door chain at 8" per second. Motor and control system are housed in dripproof enclosure.

Three button (open-close-stop) 24V control system (included) allows lowering or raising door to any desired position. Overtravel in either direction is prevented automatically by cam type limit switch. Adjustable double friction clutch. Full roller chain drive with heavy duty carriage. Quick-release door arm. CSA Approved. Telectron brand. Shipped from Chicago freight collect. Order from nearest Grainger address for fastest service.

ADDITIONAL CONTROLS AVAILABLE

Transmitter, receiver and extra pushbutton controls are available for Telectron door openers. Write to Customer Service Dept., Chicago, stating opener model number and type of control needed.



\$198.35

For Doors Up To 10' H, 200 Sq. Ft.

Maximum Door Size	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
10 ft. H 200 Sq. Ft.	RD10	3Z262	\$334.00	\$198.35	75
14 ft. H 280 Sq. Ft.	RD14	3Z263	\$52.00	\$210.41	100

CHAIN-DRIVE RESIDENTIAL GARAGE DOOR OPENER

Operate Doors up to 18 Ft. Wide x 7 Ft. High. 1/3 HP Motor. 115V, 60 Hz.

Squire opener operates solid jamb, sectional or pivot-type one or two car overhead garage doors up to 18 ft. wide x 7 ft. high. Dependable chain-drive operation. Powered by 1/3 HP, capacitor-start motor. If closing door strikes obstacle, door automatically reverses to full open position and shuts off; if opening door hits obstacle, slip clutch prevents further movement. Light comes on when door opens, goes out when door closes. Motor protector circuit breaker. Shipped partially assembled with receiver, transmitter with battery, pushbutton wall kit for in-garage operation. 31 1/2" L x 12 3/4" W x 10 3/4" H.

Deluxe Model residential door opener has the capacity and all features of the Squire model—plus automatic reconnect trolley, enclosed light with 2 minute delay, and 115V auxiliary plug-in receptacle. Has manual switch to turn light on. Door operates manually if power fails, reconnects itself when power is restored. Partially assembled, 31 1/2" L x 12 3/4" W x 10 3/4" H.

Type	Stock No.	Retail	Each	Wt.
Squire	2Z968	\$137.00	\$109.65	41
Deluxe	2Z969	170.40	136.35	42

EXTRA TRANSMITTER

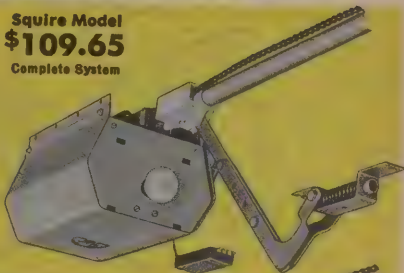
For No. 2Z968, 2Z969, 3Z347, 3Z348 door openers. When ordered with opener, frequency is matched. If ordered separately, specify frequency on receiver name-plate. Battery incl. Shipped from Customer Service Dept., Chicago. Wt. 1 lb.

No. 2Z542. Retail \$22.40. Each\$17.90

Squire Model

\$109.65

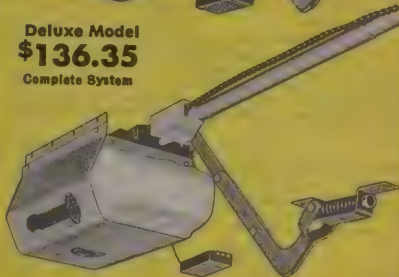
Complete System



Deluxe Model

\$136.35

Complete System

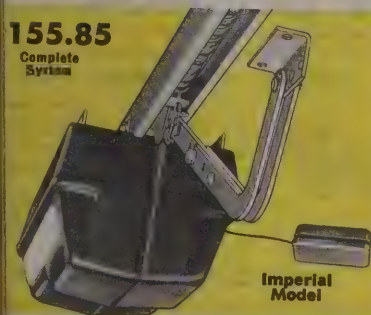


DELUXE WORM-DRIVE GARAGE DOOR OPENER

Remote Control Radio Operated Worm-Drive System Operates One or Two Car Sectional, Solid-Jamb or Pivot-Type Doors up to 7 1/2 Ft. High x 18 Ft. Wide. Moore-O-Matic Brand

155.85

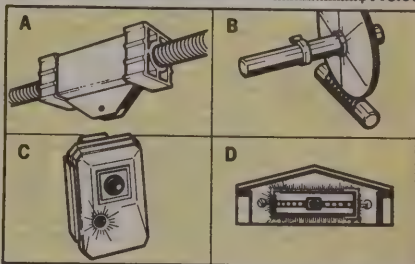
Complete System



Imperial Model

Deluxe door operator with solid-state radio control: Touch of button on transmitter in car automatically unlocks and opens overhead garage door, and turns on light. With a second touch, functions are reversed. Has slip-clutch instant reverse safety feature in the event door strikes an obstacle when closing. Easily installed—only 3" headroom needed above door. 3/4" worm drive and industrial-type gears are enclosed in metal channel. Door opens at 7 1/2" per second and has adjustable speed up to 175 lbs. Quick-disconnect feature permits manual operation of door if power fails. Is powered by 1/3 HP, perm. split capacitor, 3-pole enclosed motor with manual reset protection. 1500 RPM, 115V, 60 Hz, 4.2 A. Receiver operates on 24V, 60 Hz. Transmitted VHF transmitter uses 9V battery. Pre-assembled. Hardware, low voltage wire,

pushbutton switch for non-electronic operation, and installation instructions included. Dimensions: 9'-11 1/2" L x 8 3/4" W x 8 1/2" H. Wt. 52 lbs. No. 7Z407. Door Opener, Receiver and Transmitter. Retail \$214.95. Each\$155.85
No. 3Z359. Door Opener Only. Retail \$167.64. Each\$118.00



STANDARD FEATURES: (A) Powerful 3/4" worm drive with industrial-type trolley. (B) Completely enclosed, gear-driven limit actuator—up and down limits can be adjusted with key furnished. (C) Signal-glow transmitter—light goes on when activated. (D) Decorative, lighted wall switch operates door when button is pushed.

EXTRA TRANSMITTER

For 7Z407 only. When ordered with opener frequency is matched. If ordered separately, specify frequency on receiver nameplate. Shipped from Customer Service Dept., Chicago. Shpg. Wt. 1 lb.

No. 2Z587. Each\$19.95

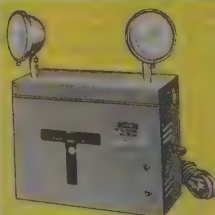


SEE WARRANTY INFORMATION ON PAGE 684

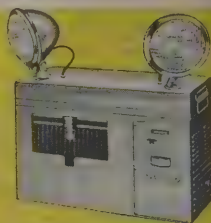
EMERGENCY POWER FAILURE LIGHTING UNITS

Battery-Operated—Turns on Automatically. Solid State Charger, Lead Acid Battery

Instant illumination automatically for power failure, open fuse or circuit breaker. Floods 10,000 sq. ft. from two adjustable sealed beam lamps. Units will operate a total of 5 lamps, will accept No. 2V397 remote lamp and No. 2V398 exit sign. 6 volt lead acid battery with three colored hydrometer indicating discs to show state of charge. Transparent, high impact, heat resistant battery case allows visual inspection of electrolyte level. 120V and 6V fuses for full circuit protection. AC power supply light, test switch. 3 cond. SJ cord set, wall mounting shelf. Meets OSHA requirements when installed with junction box for permanent conduit connection. Big Beam brand. 120V, 60 Hz. UL listed.



\$104.24 30 Amp/Hr
No. 7V127



\$153.47 100 Amp/Hr
No. 7V120

No. 7V120. Emergency Lighting Unit with 100 Amp/Hr Battery operates two lamps up to 13 1/2 hours. Solid state hermetically sealed triple rate continuous charger has no relay or moving parts, impervious to dirt, moisture, etc. Will not over- or undercharge battery. Constant reading

DC voltmeter, slideout chassis.

No. 7V127. Emergency Lighting Unit with 30 Amp/Hr Battery operates two lamps up to 3 1/2 hours. Silicon diode controlled tapering single rate charger. Solid state components, automatic relay switching.

LIMITED WARRANTY

Solid state charger of No. 7V120 is warranted against defects in material and workmanship under normal use (rental service excluded) on a straight line, pro-rata basis for 5 years. Bat-

tery for No. 7V120 is warranted on a straight line basis for 7 years. Battery for No. 7V127 is warranted on a straight-line, pro-rata basis for 3 years. See Limited Warranty Policy in Index.

Battery Amp./Hr.	Mfr's Model	Maximum Light Output (Hours) No. of Lamps*					Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
		2	3	4	5		L	W	H				
30	2T30	3 1/2	2	1 1/2	1		15 3/4"	6 1/4"	18 1/2"	7V127	\$134.00	\$104.24	42
100	2TC6L100P2BKT	13 1/2	7 1/2	5 1/2	4		21	9	20	7V120	212.15	153.47	68

(*) 2 exit signs equal 1 lamp head in determining lighting time.

EMERGENCY LIGHTING ACCESSORIES, REPLACEMENT BATTERIES

For Big Beam and Other 6 Volt Emergency Lighting Units

SINGLE FACE UNIVERSAL EXIT SIGN

For Right, Left or Forward Exit. Lights Floor



Single face exit sign has die cast aluminum housing, two 25 watt medium base 120V sockets for normal AC operation and two 6V double contact bayonet base bulbs and sockets for emergency lighting system. Universal snap-in inserts for pointing arrows in exit direction. Translucent bottom panel allows 1 footcandle (fc) lighting of floor; exit sign face provides 5 fc. Electrical connections to both emergency light unit and to 120V local power. 2 exit signs equal 1 sealed beam lamp in determining lighting time. For indoor use only. UL listed. Big Beam brand. Shpg. wt. 8 lbs.

No. 2V398. Retail \$36.75. Each.....\$29.44

REMOTE SEALED BEAM LAMP



Single Par 36 remote lamp assembly with double contact bayonet base bulb. 5" chrome-plated lamp head with chrome reflector ring and swivel bracket. Brushed chrome single gang wall plate for standard switch box mounting. Big Beam brand. Wt. 1 1/4 lbs.

No. 2V397. Retail \$14.00. Each.....\$10.34

WIRE SIZE FOR ACCESSORIES

Terminals are provided on both emergency lighting units (No. 7V120 and 7V127) and accessories for connecting wires. Install wire in accordance with local electrical code. Select proper gauge wire from table, below. Wire may be purchased locally.

6 VOLT WIRING DISTANCES IN FEET

Wire Gauge	No. of Remote Lamps or Exit Signs				
	1	2	3	4	5
12	23 ft.	12 ft.	7 ft.	6 ft.	5 ft.
10	36	18	12	9	7
8	58	29	19	14	12
6	92	46	30	23	18
4	146	73	48	36	29

REPLACEMENT LEAD ACID BATTERIES

Not interchangeable. Order same amp/hr rating as on present unit. Big Beam brand.

Battery Amp./Hr.	For Unit Stock No.	Stock No.	Retail	Each	Shpg. Wt.
30	7V127	2V396	\$65.00	\$45.88	30
100	7V120	2V335	80.00	60.19	37

LIMITED WARRANTY: Battery No. 2V396 is warranted against defects in material and workmanship on a straight-line, pro-rata basis for 3

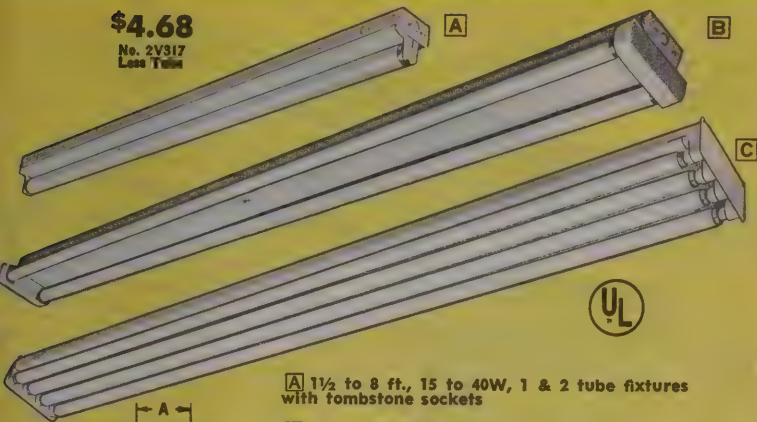
years; battery No. 2V335 is warranted on a straight-line, pro-rata basis for 7 years. See Limited Warranty Policy in Index.

Dayton UNSHIELDED FLUORESCENT FIXTURES

Top Quality Unshielded Strip Lighting. 15 to 215W; 115V, 60 Hz. UL Listing

\$4.68

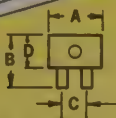
No. 2V317
Less Tubes



A 1½ to 8 ft., 15 to 40W, 1 & 2 tube fixtures with tombstone sockets

B 8 ft., 75W, 2 & 4 tube fixtures with slimline furret sockets

C 8 & 16 ft., 75 to 215W, 1, 2 & 4 tube fixtures with full width channel for slimline, high output or very high output use



HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 1 ON PAGE 373

igned to Deliver Abundant, Low Cost
ighting for warehouses, factories and stores.

Formed Heavy Gauge, cold rolled steel.

Minimum Reflectance provided by electrostatically-finished, high gloss baked white enamel.

wired With Advance or equal rapid start trigger start "P" rated or preheat ballasts.

tombstone Sockets on 15 to 40W fixtures.

- **Combination End Plate/Connectors** for single or continuous row installation. IBEW Label.
- **Nos. 3V329 and 3V300** are two tube tandem fixtures with single ballast to save on initial installation costs over two units.
- **All Fixtures** are **Surface or Suspension** mounted except Nos. 3V254, 3V281, 3V287 and 3V297 which are suspension mounted only. 2½" spacers are available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service.

No.	TUBES* (Not Incl.) Watts	Type	Type Ballast†	Line Current	Length	Dimensions				Stock No.	—Less Tubes—		Shpg. Wt.
						A	B	C	D		Retail	Each	
1	15	F15T8/T12	Trig. St.	0.58	1½ Ft.	2¾"	3½"	—	1⅞"	2V427	\$13.98	\$7.69	3
1	20	F20T12	Preheat	.34	2	2¾"	3½"	—	1⅞"	2V317	8.50	4.68	2½
1	20	F20T12	Trig. St.	.58	2	2¾"	3½"	—	1⅞"	2V318	13.98	7.69	4
2	20	F20T12	Preheat	.68	2	4¼"	3½"	2½"	1¾"	2V339	16.64	9.15	4
2	20	F20T12	Trig. St.	.60	2	4¼"	3½"	2½"	1¾"	2V322	21.40	11.77	4
1	30	F30T12	Rap. St.	.65	3	2¾"	3½"	—	1⅞"	2V428	15.33	8.43	5
1	40	F40T12	Rap. St.	.77	4	2¾"	3½"	—	1⅞"	3V304	14.29	7.86	6
2	40	F40T12	Rap. St.	.77	4	4¼"	3½"	2½"	1¾"	3V277	20.13	11.07	8
2	40	F40T12	Rap. St.	.77	8	4¼"	3½"	—	1¾"	3V300	26.44	14.54	15
2	75	F96T12	Trig. St.	1.45	8	8	4⅞"	5	1⅞"	3V280	39.53	21.74	19
4	75	F96T12	Trig. St.	2.90	8	11	4⅞"	3	1⅞"	3V281 †	68.89	37.89	29
1	75	F96T12	Rap. St.	.85	8	4⅞"	3½"	—	1⅞"	3V305	30.64	15.32	17
2	75	F96T12	Rap. St.	1.45	8	4⅞"	3½"	2½"	1⅞"	3V279	31.88	15.94	20
2	75	F96T12	Rap. St.	1.45	16	4⅞"	3½"	—	1⅞"	3V329	49.68	24.84	28
4	75	F96T12	Rap. St.	2.90	8	9	4⅞"	2⅞"	4⅞"	3V287 †	78.04	39.02	37
2	110	F96T12/HO	Rap. St.	2.10	8	5	4⅞"	3	2⅞"	3V297 †	52.44	26.22	24
2	215	F96T12/VHO	Rap. St.	3.70	8	5	4⅞"	2½"	2⅞"	3V254 †	81.88	40.94	31

*Tubes not included. See Index under Tubes, Fluorescent. (†) For suspension mounting only.
† Last Type: Rap. St. —Rapid start; Preheat —Preheat with starters included.; Trig. St. —Trigger Start.

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

SEE WARRANTY INFORMATION ON PAGE 684



ECONOMY INDUSTRIAL FLUORESCENT FIXTURE

4 & 8 Ft. Models. 40 to 110W; 115V, 60 Hz. UL Listed

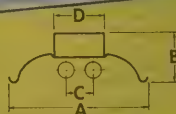
A
\$11.74

No. 3V332
Less Tubes



B
\$27.53

No. 3V338
Less Tubes



HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 3 ON PAGE 373

- **Produces Abundant Lighting** in factories, warehouses, garages, offices, institutions and shops.
- **Die Embossed Reflectors** for extra strength and rigidity. Channels die formed from heavy gauge cold rolled steel.
- **Slotted Aperture Reflector** models provide 10% uplight. Non-aperture reflectors provide 100% downlight and are extra wide for greater light distribution directly on working surface.
- **90% Minimum Reflectance** provided by electrostatically-finished, high gloss baked white enamel.
- **1/4 Turn Latch Assembly** assures fast, easy installation without tools.
- **Prewired with Advance** or equal "P" rate rapid start, slimline or high output ballast. No. 3V337 has special, low temperature ballast for outdoor applications.
- **Rotating Pressure Lock Tubeholders** on 40 fixtures; others have Tombstone spring-loaded tubeholders.
- **Combination End Plate-Connectors** for single or continuous row installation.
- **All Fixtures are Surface** or suspension mounted except Nos. 3V337 and 3V339 which are suspension mounted only. 2 1/2" spacers are available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service.
- **UL Listed, IBEW Label.**

Fig.	TUBES* (Not Included) No.	Watts	Reflector Type	Tube Socket Type	Length	Dimensions A B C D				Stock No.
A	2	40	Non-Apertured	Medium Bipin	4 Ft.	12"	4 1/8"	2 1/2"	4 1/8"	3V332
	4	40	Non-Apertured	Medium Bipin	8	12	4 1/8"	2 1/2"	4 1/8"	3V335
	2	75	Non-Apertured	Single Pin	8	12	4 1/8"	2 1/2"	4 1/8"	3V331
	2	40	Apertured	Medium Bipin	4	12	4 1/8"	2 1/2"	4 1/8"	3V333
	4	40	Apertured	Medium Bipin	8	12	4 1/8"	2 1/2"	4 1/8"	3V336
	2	75	Apertured	Single Pin	8	12	4 1/8"	2 1/2"	4 1/8"	3V334
B	4	40	Non-Apertured	Medium Bipin	4	16	5 1/2"	2 1/8"	9	3V338
	4	75	Non-Apertured	Single Pin	8	16	5 1/2"	2 1/8"	9	3V339
	2	110	Non-Apertured	Recess Dbl. Contact	8	12	5 1/8"	3	5	3V337

Fig.	TUBES* (Not Included) No.	Watts	Ballast Type	Line Current	Stock No.	—Less Tubes— Retail Each		Ship Wt.
A	2	40	F40	Rapid Start	3V332	\$19.57	\$11.74	14
	4	40	F40	Rapid Start	3V335	40.75	24.45	29
	2	75	F96T12	Slimline	3V331	33.95	20.40	20
	2	40	F40	Rapid Start	3V333	19.57	11.74	13
	4	40	F40	Rapid Start	3V336	40.75	24.45	26
	2	75	F96T12	Slimline	3V334	33.83	20.33	27
B	4	40	F40	Rapid Start	3V338	45.88	27.53	23
	4	75	F96T12	Slimline	3V339†	75.00	45.00	50
	2	110	F96T12/HO	High Output	3V337†	53.82	32.29	30

(*) Tubes not included. See Index under Tubes, Fluorescent. (†) For suspension mounting only.

No. 2V122. 24" STEM & CANOPY SET. For suspending any industrial or commercial fluorescent fixture from ceiling. Max. depth 24". Steel

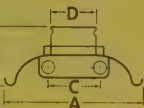
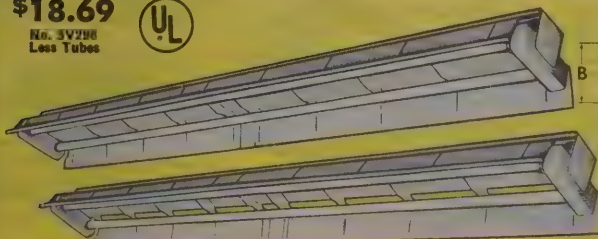
components finished in white baked enamel. Easy to mount. Shpg. wt. 1 1/2 lbs.
No. 2V122. Retail \$5.16. Each.

Dayton PREMIUM INDUSTRIAL FLUORESCENT FIXTURES

4 & 8 Ft. Models. 40 to 215W; 115V, 60 Hz. UL Listed

\$18.69

No. 3V296
Less Tubes



\$19.62

No. 3V322
Less Tubes

**HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 2 ON PAGE 373**

Engineered to Provide Abundant and controlled lighting in shops, garages, warehouses. Embossed Reflectors for extra strength and rigidity. Easily assembled without tools. Channels die formed from heavy gauge, cold rolled steel.

Reflector Available Either as slotted aperture or 10% uplight or non-apertured for 100% downlight.

Spring-Loaded Turret tubeholders are mounted for positive lamp contact.

Prewired with "P" Rated rapid start, instant start and high output ballasts.

- 90% Minimum Reflectance electrostatically-finished, high gloss baked white enamel.
- Combination End Plate/Connectors for single or continuous row installation.
- Captive Fingergrip Fasteners secure reflectors to channel without tools.
- All Fixtures are Surface or suspension mounted except Nos. 3V255 and 3V330 which are suspension mounted only. 2 1/2" spacers are available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service.
- UL Listed, IBEW Label.

S (Not Incl.) Watts	Reflector Type	Tube Socket Type	Length	Dimensions In Inches					Stock No.
				A	B	C	D		
40	Non-Apertured	Medium Bipin	49 $\frac{1}{4}$	12 $\frac{1}{2}$	4 $\frac{3}{4}$	5	4 $\frac{1}{4}$	3V290	
40	Apertured	Medium Bipin	49 $\frac{5}{16}$	13	6 $\frac{1}{2}$	6	4 $\frac{1}{4}$	3V322	
75	Apertured	Single Pin	96	13	6 $\frac{1}{2}$	6	4 $\frac{1}{4}$	3V323	
110	Apertured	Recess Dbl. Contact	96	13	6 $\frac{1}{2}$	6	4 $\frac{1}{4}$	3V330†	
215	Non-Apertured	Recess Dbl. Contact	96	13	4 $\frac{1}{4}$	6	6 $\frac{1}{2}$	3V255†	

TUBES* (Not Included) Watts	Ballast Type	Line Current	Stock No.	—Less Tubes— Retail Each		Shpg. Wt.
40 F40	Rapid Start	0.77	3V290	\$33.98	\$18.69	16
40 F40	Rapid Start	.77	3V322	35.67	19.62	20
75 F96T12	Instant Start	1.45	3V323	59.11	32.51	35
110 F96T12/HO	High Output	2.1	3V330	72.04	39.62	32
215 F96T12/VHO	Very High Output	3.7	3V255	97.70	53.74	43

*Tubes not included. See Index under Tubes, Fluorescent. (†) For suspension mounting only.

3V373, REFLECTOR ALIGNING CLIPS. Pair fits Nos. 3V322, 3V323, 3V330. 3 oz. Retail \$2.33, \$1.28

Dayton WORKSHOP FLUORESCENT FIXTURES

Steel channels.
Shop hood reflectors



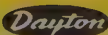
\$10.70

No. 2V311
Less Tubes

- 24 or 48" Fluorescent Fixtures provide abundant light over workshop benches, tools.
- All Steel Die Formed Channels with drop hood reflectors.
- One-Piece Die Formed Reflectors have full length stiffening flange on each edge for extra rigidity.
- 86% Minimum Reflectance provided by electrostatically-finished, high gloss baked white enamel.
- Prewired with Advance or equal ballast. "P" rated in No. 3V286.
- Includes 3 Ft., 3-Conductor cord set and chain for suspension mounting only.
- 115V, 60 Hz. UL Listed. IBEW Label.

BES (Not Included) Watts	Ballast Type	Length	Width	Stock No.	—Less Tubes— Retail Each	Shpg. Wt.
20 F20T12	Preheat	2 Ft.	1 Ft.	2V311	\$19.45	5 1/2
40 F40	Rapid Start	4	1	3V286	27.60	15

SEE WARRANTY INFORMATION ON PAGE 684

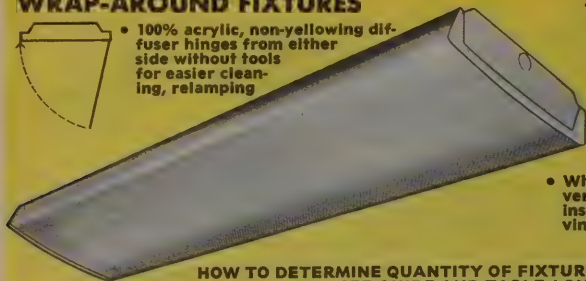


COMMERCIAL FLUORESCENT FIXTURES

WRAP-AROUND FIXTURES



- 100% acrylic, non-yellowing diffuser hinges from either side without tools for easier cleaning, relamping



\$16.82

No. 3V291
Less Tubes



- White end panels can convert to wood finish by field installation of self-adhesive vinyl wood grain strips

HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 4 ON PAGE 373

- 4 & 8 Ft., 40 Watt fixtures with 2, 4 or 8 tubes for stores and public buildings.
- 100% Acrylic, Non-Yellowing prismatic diffuser for even, glare-free light distribution.
- Die Formed, Heavy Gauge steel construction.
- 90% Minimum Reflectance provided by electrostatically-finished, high gloss baked white enamel.

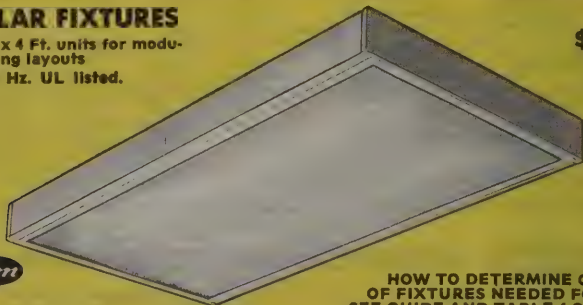
- Prewired with Advance or equal "P" rapid start ballasts.
- All Fixtures are Flush or suspension mount either singly or in rows. Ample knock-out 2½" spacers are available on special order, extra cost. Order from nearest Grainger location for fastest shipping service.
- 115V, 60 Hz. UL listed. IBEW label.

TUBES* No.	(Not Incl.) Watts	Type	—Fixture Dimensions—			Line Current	Stock# No.	Retail	Each	Sh W
2	40	F40	48"	10"	3"	0.77	3V291	\$33.64	\$16.82	1
4	40	F40	48	15½	3	1.54	3V292	59.52	29.76	2
4	40	F40	96	10	3	1.54	3V293	66.68	33.34	4
8	40	F40	96	15½	3	3.10	3V294	114.60	57.30	8

(*) Tubes not included; see Index under Tubes, Fluorescent. (\$) End panels have white finish but convert to wood appearance by adding self-adhesive, vinyl wood grain strips shipped with each unit.

MODULAR FIXTURES

- 1 x 4 & 2 x 4 Ft. units for modular lighting layouts
- 115V, 60 Hz. UL listed.



\$27.94

No. 3V346
Less Tubes



HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 4 ON PAGE 373

- Surface Mounted Modular Fixtures for use in stores, libraries and commercial buildings. Exact modular sizing allows single or continuous mounting on 48" centers.
- 100% Acrylic, Non-yellowing prismatic diffuser for even, glare-free light distribution.
- Diffuser Framed in Heavy Gauge steel door and hinged for easy cleaning, relamping.
- Urethane Foam Gasket in framed door prevents light leaks, keeps dust out.

- All Metal Sides for clean, crisp appearance. Die formed, heavy gauge steel construction.
- 90% Minimum Reflectance provided by electrostatically-finished, high gloss baked white enamel.
- Prewired with Advance or equal "P" rapid start ballasts and snap-in pressure lock sockets. IBEW label.

TUBES* No.	(Not Incl.) Watts	Type	Line Current	Dimensions			Stock No.	—Less Tubes— Retail	Each	Sh W
2	40	F40	0.77	4 Ft.	12½"	3¾"	3V346	\$46.57	\$27.94	2
4	40	F40	1.54	4	24	3¾	3V347	63.85	38.31	4

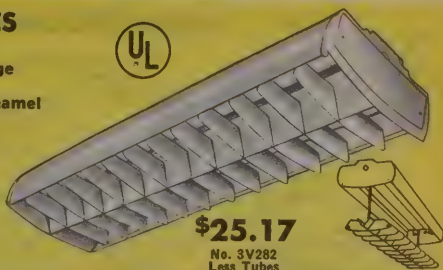
(*) Tubes not included; see Index under Tubes, Fluorescent.

Dayton COMMERCIAL FLUORESCENT FIXTURES

DAYTON LOUVERED FIXTURES

4 and 8 ft., 2 and 4 tube models. UL listed
Die formed channels made from heavy gauge steel for maximum rigidity and uniformity
Electrostatically-finished, baked-on white enamel provides 86% minimum reflectance
Easy, no-tool maintenance—finger-pressure releases louver lock
35° x 25° shielding
Louvers supported by safety chains during cleaning and relamping

HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 5 ON PAGE 373



ular Dayton louvered fixtures are designed
use in schools and stores as well as commer-
establishments. Feature maximum light
ad distribution in a surface-mounted unit.
-inch high translucent, ribbed polystyrene
panels provide ample side lighting. Die
red, welded steel channels, baked-on white

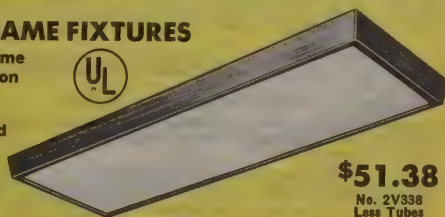
enamel finishes. No. 3V285 is designed for sus-
pension mounting only. 2½" spacers are avail-
able on special order, at extra cost. Order from
nearest Grainger location for fastest shipping
service. Ample knockouts provided; prewired
with Advance or equal "P" rated HPF ballast.
115V, 60 Hz. UL listed, IBEW label.

TUBES* (Not Incl.)		Line Current	Dimensions			Stock No.	—Less Tubes—		Shpg. Wt.
Watts	Type		Length	Width	Height		Retail	Each	
40	F40	0.77	4 Ft.	12½"	5¾"	3V282	\$45.76	\$25.17	16
40	F40	1.54	4	12½	5¾	3V283	66.58	36.62	22
75	F96T12	1.45	8	12½	5¾	3V284	82.65	45.46	30
75	F96T12	2.90	8	12½	5¾	3V285	115.24	63.38	40

DAYTON DELUXE WOOD FRAME FIXTURES

Distinctive, walnut-finished solid wood frame
Provides maximum light spread distribution
Die formed, welded channel of heavy
gauge steel
Prewired with Advance or equal "P" rated
HPF ballast. 115V, 60 Hz UL listed

HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 5 ON PAGE 373



curious, high-styled fluorescent fixture de-
signed for executive suites and offices, fine
s, recreation and family rooms, dens and
ens. Walnut-finished frame of solid wood.
Wide wide-spread diamond prismatic polysty-
rene lenses for glare-free illumination. Frame

hinges from either side of fixture to make re-
lamping and cleaning easy—no screws or tools
required. Uses 4 rapid start tubes, available in
either 20 or 40W. Prewired with Advance or
equal "P" rated rapid start ballast. 115V, 60 Hz.
UL listed, IBEW label.

TUBES* (Not Incl.)		Line Current	Dimensions In Inches			Stock No.	—Less Tubes—		Shpg. Wt.
Watts	Type		Length	Width	Height		Retail	Each	
20	F20T12	1.20	25½"	17¼"	4	2V338	\$93.42	\$51.38	18
40	F40	1.54	49½"	17¼"	4	3V321	115.38	63.46	29

DAYTON CORRIDOR FIXTURE

2 and 4 ft. long models
Electrostatically baked-
on white enamel finish

\$14.05
No. 2V323
Less Tube



igned for lighting corridors and hallways in
s, schools, offices, stores—may be mounted
ally for side lighting. Body die formed
heavy gauge steel, electrostatically-fin-

ished, baked-on white enamel. Uses 20 or 40W
fluorescent tubes. Frosted ribbed polystyrene
diffuser. "P" rated Advance or equal rapid start
ballast. 115V, 60 Hz. UL listed, IBEW label.

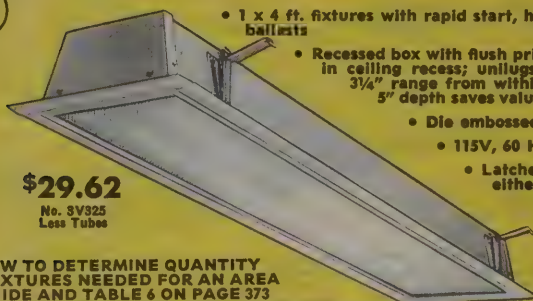
TUBES* (Not Incl.)		Line Current	Dimensions			Stock No.	—Less Tubes—		Shpg. Wt.
Watts	Type		Length	Width	Height		Retail	Each	
20	F20T12	0.58	2 Ft.	4¾"	4¾"	2V323	\$25.55	\$14.05	7
40	F40	0.77	4	4¾	4¾	3V308	30.70	16.89	9

Shpg. weight not included; see Index under Tubes, Fluorescent.

SEE WARRANTY INFORMATION ON PAGE 684



RECESS MOUNT FLANGE-TYPE



\$29.62

No. 3V325
Less Tubes

**HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 6 ON PAGE 373**

Dayton fluorescent flange-type troffers are widely used in offices, recreation rooms and hallways. Designed to be installed in ceiling recesses over plaster or concealed-frame ceiling systems. Prismatic polystyrene diffuser on hinged frame makes relamping easy. Die formed

- 1 x 4 ft. fixtures with rapid start, high power factor "P" rated ballasts
- Recessed box with flush prismatic lens, easily installed in ceiling recess; unlugs are fully adjustable over 3/4" range from within installed fixture; shallow 5" depth saves valuable space
- Die embossed for greater strength
- 115V, 60 Hz, UL listed
- Latched frame design hinges from either side for easy servicing

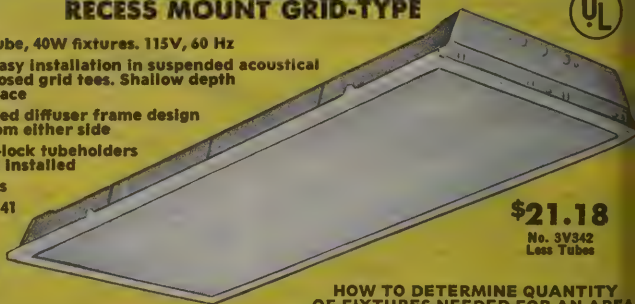


from heavy gauge, cold rolled steel, electrostatically-finished in baked-on, white enamel. Advance or equal rapid start, high power factor "P" rated ballast. Ample knockouts provide adjustable mounting brackets, 115V, 60 Hz. UL listed. IBEW label.

TUBES* No.	(Not Included) Watts	Type	Line Current	Length	Dimensions Width	Height	Stock No.	—Less Tubes— Retail	Each	Shp Wt.
2	40	F40	0.77	4 Ft.	10 1/8"	5"	3V325	\$53.85	\$29.62	24
4	40	F40	1.54	4	10 1/8"	5	3V326	67.10	36.91	28

(*) Tubes not included; see Index under Tubes, Fluorescent.

RECESS MOUNT GRID-TYPE



\$21.18

No. 3V342
Less Tubes

**HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 6 ON PAGE 373**

- 4 ft. long, 2 & 4 tube, 40W fixtures. 115V, 60 Hz
- Engineered for easy installation in suspended acoustical ceilings with exposed grid tees. Shallow depth saves valuable space
- Hinged and latched diffuser frame design can be hinged from either side
- Snap-in pressure-lock tubeholders are prewired and installed
- "P" rated ballasts
- Nos. 3V340 & 3V341 have snap-in access panels—permit wiring without opening fixtures

Dayton grid-type troffers are designed for easy installation plus maintenance-free service. Fully assembled, ready-to install in ceilings with exposed grid tees. Housing made from die formed, heavy gauge steel with reinforcing ribs for added rigidity. Electrostatically-finished, high-gloss baked white enamel provides 90%

reflectivity. Nos. 3V340 and 3V341 feature snap-in access panels that permit wiring without opening fixtures. Fully-framed door has urethane foam gasket to prevent light leaks and keep dust out; can be hinged from either side. "P" rated ballast, prismatic polystyrene diffuser lens. 115V, 60 Hz. UL listed, IBEW label.

TUBES* No.	(Not Included) Watts	Type	Line Current	Length	Dimensions Width	Height	Stock No.	—Less Tubes— Retail	Each	Shp Wt.
2	40	F40	0.77	4 Ft.	11 3/4"	4 1/2"	3V342	\$35.25	\$21.18	22
2	40	F40	.77	4	23 3/4"	4 1/2"	3V341	40.38	24.23	30
4	40	F40	1.54	4	23 3/4"	4 1/2"	3V340	46.87	28.16	33

(*) Tubes not included; see Index under Tubes, Fluorescent.

**Over 500 Most Widely-Used Fan and Blower Types are Stocked at Grainger's
Call Us For Regular and Emergency Needs — Rely on Immediate Delivery**

Dayton FLUORESCENT GRID-TYPE TROFFERS

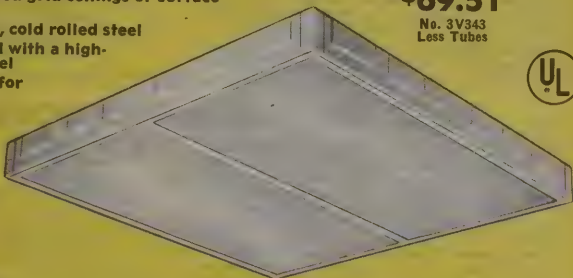
SURFACE OR RECESS MOUNT GRID-TYPE

6 & 8 Tube Rapid Start, 4 x 4 Ft. Fixtures
Easily installed in recessed grid ceilings or surface
mounting applications

Die formed heavy gauge, cold rolled steel
Electrostatically-finished with a high-
loss, baked white enamel
Die embossed top panel for
extra rigidity

\$69.51

No. 3V343
Less Tubes



Acrylic diffusers in
steel frame doors
with sliding cam latches.
Designed to be hinged
from either side.

115V, 60 Hz. UL Listed

**HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 6 ON PAGE 373**

on 4 x 4 ft. fluorescent surface or grid trof-
are engineered for lighting large areas in
s, offices, meeting rooms, etc. Fixtures are
ned for easy installation and maintenance-
service. Shallow depth requires minimum
um clearance above ceiling. All fixtures
are snap-in, pressure-lock tubeholders, pre-

wired and installed. Hinged and latched diffuser
frame has urethane seals to help prevent light
leaks and keep dust out. Light panels consist
of two, 2 x 4 ft. sections of 100% virgin acrylic
plastic, framed in heavy gauge steel. "P" rated
rapid start ballast. 115V, 60 Hz. UL listed, IBEW
label.

TUBES* (Not Incl.)		Line Current	Dimensions			Stock No.	—Less Tubes—		Shpg. Wt.
Watts	Type		Length	Width	Height		Retail	Each	
40	F40	1.54	4 Ft.	48"	4 1/4"	3V343	\$115.85	\$69.51	48
40	F40	2.31	4	48	4 1/4	3V344	129.48	77.69	64
40	F40	3.10	4	48	4 1/4	3V345	143.30	85.98	66

tubes not included; see Index under Tubes, Fluorescent.

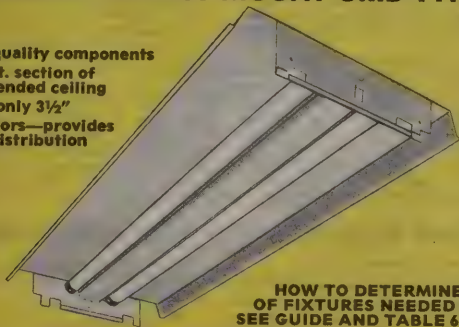
ECONOMY RECESS MOUNT GRID-TYPE

Feature industrial-quality components

Unit fits over 2 x 4 ft. section of
inverted T-bar suspended ceiling

Mounting height is only 3 1/2"

Full 20" wide reflectors—provides
well-diffused light distribution



Dayton

\$14.64

No. 3V315
Less Tubes

**HOW TO DETERMINE QUANTITY
OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 6 ON PAGE 373**

on economy lay-in fixture features indus-
quality components. Fits over 2 x 4 ft. sec-
of inverted T-bar suspended ceiling; all
ating hardware included. Units may be
ated individually or in continuous rows.

Requires only 3 1/2" minimum clearance above
T-bars. Advance or equal "P" rated ballast. Uses
two 40W rapid start tubes, not included. Rotat-
ing lock, medium bi-pin tombstone-type sockets.
115V, 60 Hz. UL listed, IBEW label. Dayton brand.

ES* (Not Incl.)		Type Ballast	Line Current	Dimensions			Stock No.	—Less Tubes—		Shpg. Wt.
Watts	Type			Length	Width	Height		Retail	Each	
40	F40	Rapid Start	0.77	4 Ft.	20 1/2"	3 1/2"	3V315	\$26.62	\$14.64	14

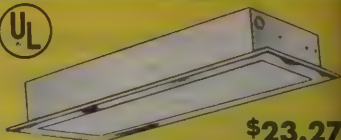
tubes not included; see Index under Tubes, Fluorescent.

RECESSED-MOUNT 20 WATT FLUORESCENT FIXTURE

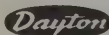
For Use in Homes and Commercial Buildings

Attractive recessed fluorescent fixture uses two 20W (F20T12) fluorescent tubes. Alkalite flat glass mounted in $8\frac{1}{2} \times 25\frac{3}{4}$ " torsion-type hinged chrome frame. Heavy steel box measures $6\frac{3}{4} \times 24\frac{1}{2} \times 4\frac{1}{4}$ " with ample knockouts provided. Baked white enamel reflector finish. Line current 0.72 amps. 115V, 60 Hz. UL listed, IBEW label. Halo brand (116). Shpg. wt. 13 lbs.

No. 2V254. Recessed-Mount 20 Watt Fluorescent Fixture. Less tubes. Retail \$43.95. Each.....\$23.27



\$23.27

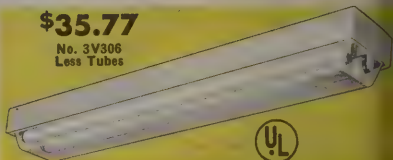


DUST/VAPOR FLUORESCENT FIXTURE

Special moisture-resistant Dayton fixture is designed for use in industrial kitchens, food processing plants, cold storage plants, etc., where sanitation and cleanliness are important. Completely sealed, fully-gasketed to resist dust and moisture. Steel body with white baked enamel finish. Clear acrylic diffuser lens provides positive protection for tubes, "P" rated Advance or equal rapid start ballast. 2 and 4 tube models. 115V, 60 Hz. Both models are UL listed, carry IBEW labels. Dayton brand.

\$35.77

No. 3V306
Less Tubes



HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 7 ON PAGE 373

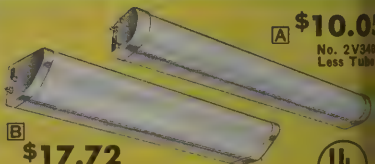
TUBES* (Not Incl.) No. Watts Type	Type Ballast	Line Current	Dimensions in Inches Length Width Height			Stock No.	—Less Tubes— Retail Each	Shpg Wt.
2 40 F40	Rap.St.	0.77	50 $\frac{1}{2}$	7 $\frac{15}{16}$	4 $\frac{7}{8}$	3V306	\$65.04	20
4 40 F40	Rap.St.	1.54	50 $\frac{1}{2}$	12 $\frac{3}{8}$	4 $\frac{7}{8}$	3V307	96.37	20
							\$35.77 53.00	



FLUORESCENT BRACKET FIXTURES

- Designed for bathrooms, kitchens, bulletin boards, recreation rooms, mirrors
- 1 & 2 tube, 15 to 40W models. 115V, 60 Hz

Dayton bracket fixtures provide abundant lighting in bathrooms, kitchens, stores, displays, etc. Die formed from heavy gauge steel, chrome finished frame has On-Off switch and grounded convenience outlet. 1-piece extruded, ribbed plastic shield. All exposed metal surfaces triple chrome plated. Prewired with Advance or equal ballast. Tubes not incl.; see Index under Tubes, Fluorescent. 115V, 60 Hz, UL listed, IBEW label. Dayton brand.



A

\$10.00
No. 2V340
Less Tubes

B

\$17.72

Less Tubes, No. 2V310



Fig.	TUBES* (Not Incl.) No. Watts Type	Type Ballast	Line Current	Dimensions in Inches Length D H			Stock No.	—Less Tubes— Retail Each	Shpg Wt.
A	1 15 F15	Preheat	0.17	18 $\frac{1}{2}$	4	2 $\frac{1}{2}$	2V340	\$18.27	3
	1 20 F20	Trig. St.	.58	24 $\frac{1}{2}$	4	2 $\frac{1}{2}$	2V309	25.13	5 $\frac{1}{2}$
	1 40 F40	Rap. St.	.65	48 $\frac{1}{2}$	4	2 $\frac{1}{2}$	3V298	31.33	8
B	2 20 F20	Trig. St.	.60	24 $\frac{1}{2}$	5 $\frac{1}{8}$	3 $\frac{1}{4}$	2V310	32.22	17.72
	2 40 F40	Rap. St.	.77	48 $\frac{1}{2}$	5 $\frac{1}{8}$	3 $\frac{1}{4}$	3V299	37.49	20.62

(*) Tubes not included; see Index under Tubes, Fluorescent.

FLUORESCENT STARTERS

Ceramic Capacitor Type



Performance and life of ceramic capacitor starter far exceeds paper types. UL and CSA listed. ETL certified. Conforms to ASA C78.180 and Federal specs. W-S-755. Dura brand. Wt. 8 oz. per carton of 10.

Wattage	Type	Stock No.	Retail	Each	Lots 10
14, 15, 20	Standard	1X835	\$0.43	\$0.33	\$0.29
13, 30, 40	Standard	1X836	.43	.33	.29
40	Reset*	1X834	1.23	.83	.77

(*) Manual Reset button on top.

Quick, Friendly Service—Lowest Prices

15 WATT CHROME STRIP

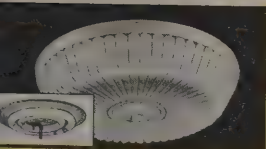


\$7.20

Widely used with bathroom mirrors in kitchens, displays, and other fluorescent lighting needs. Chrome finish on heavy $2\frac{1}{2}$ " wide steel channel. On off switch and grounded convenience outlet. Prewired with Advance or equal preheat ballast. 115V, 60 Hz, UL listed, IBEW label. Dayton brand. Shpg. wt. 1 lb.

No. 2V308. 15 Watt Chrome Strip, less tube. Retail. \$13.09. Each\$7.20

Dayton FLUORESCENT CIRCLINE FIXTURES



\$19.63

No. 2V270
Less Tubes



\$10.26

No. 2V268
Less Tubes

\$12.41

No. 2V269
Less Tubes

\$14.78

No. 2V312
Less Tubes

\$18.92

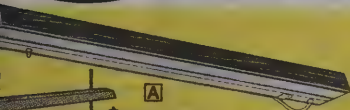
No. 2V313
Less Tubes

Attractively-styled Dayton rapid start fluorescent fixtures provide bright, glare-free light while adding beauty to kitchens, bathrooms, recreation rooms, dens, utility rooms. Also suited for interior commercial use. No. 2V270 has ribbed white polystyrene diffuser; metal centerpiece and 15 $\frac{1}{8}$ " dia. body, white baked-on enamel. Accepts one each 22 and 32W Circline tubes, can be flush mounted on outlet box. Nos. 2V268, 2V269, 2V312 and 2V313 have gleaming chrome bodies, knockouts for switches. Designed for flush mounting, measure 3 $\frac{3}{4}$ " deep. All Circline fixtures are 115V, 60 Hz, UL listed and carry IBEW labels.

No. Tubes*	Watts	Dia.	Stock No.	—Less Tubes— Retail	Each	Shpg. Wt.
2	22/32	15 $\frac{1}{8}$ "	2V270	\$35.69	\$19.63	6 $\frac{1}{2}$
1	32	12	2V268	18.65	10.26	4 $\frac{1}{2}$
2	32/22	12	2V269	22.56	12.41	5
2	40/32	12	2V312	26.87	14.78	6 $\frac{1}{2}$
3	40/32/22	12	2V313	34.40	18.92	9

(*) See Index under Tubes, Fluorescent.

Dayton SPECIAL APPLICATION FLUORESCENT FIXTURES



\$20.23

No. 2V372

\$7.94

No. 2V153

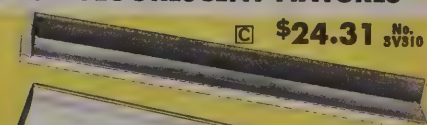


Fluorescent Shelf Fixture. For homes, offices, dormitories. Mounts to wall with keyhole slots provided or attaches to most shelving standards with hanging brackets, incl. Brackets adjust from 10 to 36" for spacing standards. Plastic diamond prismatic diffuser for glare-free lighting. Steel construction, walnut-grain finish. Rounded outlet, switch, 6 ft., 3-wire cord and plug. Uses one 30W rapid start fluorescent tube, incl. 36 L, 5 $\frac{1}{2}$ W, 2 $\frac{1}{4}$ " D. Shpg. wt. 10 lbs. UL listed.

No. 2V372. Less Tube. Retail \$36.78. Each, \$20.23

Plug-In Under-Cabinet Fixture. For shelf, utility lighting. Two keyhole slots for pin-up or screw mounting. Plug-in installation only. Start-switch, outlet, 3 ft., 3-cond. cord set. Baked-on white enamel finish. Uses one 15W fluorescent tube, not incl. 20 $\frac{3}{4}$ L, x 1 $\frac{1}{8}$ W x 1 $\frac{1}{2}$ " H. Shpg. wt 2 $\frac{1}{4}$ lbs.

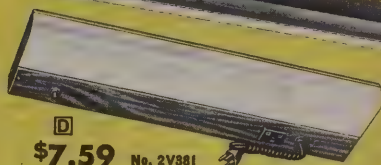
No. 2V153. Less Tube. Retail \$14.44. Each, \$7.94



C

\$24.31

No. 3V310



D

\$7.59

No. 2V381

C Wood-Grain Valance Light. For bedrooms, medicine cabinets, accent light in living, recreation rooms. Uses one 40W fluorescent tube. Steel lamp shield, wood-grain vinyl covering with white reflector. 48 $\frac{1}{4}$ " L. overall, 6 $\frac{1}{2}$ " H, 5 $\frac{1}{8}$ " D. Advance or equal "P" rated rapid start ballast. Shpg. wt. 12 lbs. UL listed.

No. 3V310. Less Tube. Retail \$44.20. Each, \$24.31

D Deluxe Under-Cabinet Light. Enclosed by white, internally-ribbed plastic diffuser. 1 $\frac{1}{4}$ H x 4 $\frac{1}{4}$ " D, hugs underside of cabinet. Press in place to install: has adhesive-coated, foam installation strips—need no screws. 3 ft., 3-cond. cord for plug-in installation or may be permanently wired. Convenience outlet, ample knockouts, On-Off switch. Walnut wood-grain finish.

Tube Watts	Long	Stock No.	—Less Tube— Retail	Each	Shpg. Wt.
8	12 $\frac{3}{4}$ "	2V381	\$13.80	\$7.59	1
15	18 $\frac{1}{4}$ "	2V380	13.80	7.59	3

DECORATOR 20W FLUORESCENT FIXTURE



\$30.00

UL

For office, store and home use. Glare-free prismatic plastic diffuser hinges from either side for servicing. Prewired with Advance or equal "P" rated, rapid start ballast; tube holders installed in place. Die stamped steel housing with baked white enamel finish, wood-grain finish steel end panels. Uses four 20W F20T12 tubes, not included; see Index under Tubes, Fluorescent. For flush or suspension mounting, singly or in rows. 15 $\frac{1}{2}$ W, 24 L, 3 $\frac{3}{4}$ " H. 115V, 60 Hz. UL listed, IBEW label. Shpg. wt. 16 lbs.

No. 2V299. Less Tubes. Retail \$54.55. Each, 30.00

HOW TO DETERMINE QUANTITY OF FIXTURES NEEDED FOR AN AREA
SEE GUIDE AND TABLE 7 ON PAGE 373

SEE WARRANTY INFORMATION ON PAGE 684

ADVANCE FLUORESCENT FIXTURE BALLASTS

Dependable Advance Brand. Tube & Circline Types. Standard & Thermally Protected P Rated Models
120V & 277V, 60 Hz. UL Listed. Quantity Prices Available on Request.

No. of Tubes	Tube Type	*ETL & (†) Watts CBM Code	Power P.F. Factor Appx.	Dimensions H W L	Volts 60 Hz	Advance Model	Stock No.	Retail	Each	Shpg. Wt.			
RAPID START, 430 MA—30 & 40 WATT													
1	F30T12/RS	30	No	2	Low	55	1 1/4" 1 1/8" 6 1/2"	120	RL140	4X506	\$6.23	\$5.11	2
1	F40T12/RS	40	No	2	Low	55	1 3/8" 1 1/8" 6 1/2"	120	RL140-TP	5X788†	7.41	6.08	2 1/2
2	F40T12/RS	40	Yes	—	High	90	1 1/2" 2 3/4" 9 1/2"	120	RQM2S40	2X599	10.72	8.79	3 1/4
2	F40T12/RS	40						120	RQM2S40TP	5X647†	11.90	9.76	3 1/4
2	F40T12/RS	40						277	VQM2S40-TP	6X065†	12.74	10.45	3
2	F40T12/RS	40						120	RM2S40-TP	5X792†	12.84	10.53	4
RAPID START, 800 & 1500 MA—85, 105, 155, 215 WATT													
2	F72T12/HO	85	Yes	—	High	90	2 3/4" 3 3/4" 11 3/4"	120	RC2S110	4X769	32.01	24.01	10
2	F96T12/HO	105/115	Yes	—	High	90	2 3/4" 3 3/4" 11 3/4"	277	VC2S110	6X066	34.07	25.55	10
2	F96T12/HO	105/115	Yes	—	High	90	2 3/4" 3 3/4" 11 3/4"	120	RC2S110-TP	5X789†	33.15	24.88	12
2	F72T12/VHO	155	Yes	—	High	90	2 3/4" 3 3/4" 14 3/4"	120	RS2S200	4X770	58.71	40.47	15
2	F96T12/VHO	215	Yes	—	High	90	2 3/4" 3 3/4" 14 3/4"	277	VS2S200	6X067	61.97	42.72	15
2	F96T12/VHO	215	Yes	—	High	90	2 3/4" 3 3/4" 14 3/4"	120	RS2S200-TP	5X790†	59.85	41.26	15
INSTANT START, 425 MA—40 TO 75 WATT													
2	F48T12	40	Yes	—	High	90	1 3/4" 3 3/4" 9 3/4"	120	SM2E40S	4X507	18.30	15.01	5 1/2
2	F72T12	55	Yes	—	High	90	1 3/4" 3 3/4" 11 3/4"	120	SM2E75S	2X600	17.85	14.84	6
2	F96T12	75						277	VSM2E75S	6X068	19.21	15.75	8
2	F72T12	55	Yes	—	High	90	1 3/4" 3 3/4" 11 3/4"	120	SM2E75S-TP	5X648†	19.03	15.80	7
2	F96T12	75						277	VSM2E75S-TP	6X069†	20.39	16.72	8
2	F72T12	55	No	—	High	90	1 3/4" 3 3/4" 9 1/2"	120	ADM2E75S	4X508	13.96	11.45	5
2	F96T12	75											
PREHEAT START (REQUIRES STARTER)—14 TO 40 WATT													
1	F14T12	14	No	1	Low	55	1 1/4" 1 3/8" 3 3/8"	120	LC1420C	2X463	1.92	1.57	12 oz.
1	F15T8	15											
1	F15T12	15											
1	F20T12	20											
1	F30T8	30	No	—	Low	50	1 3/4" 1 1/8" 6 1/2"	120	L140F	2X289	5.25	4.31	2 1/4
1	F40T12	40											
2	F40T12	40	No	—	High	90	1 1/4" 2 3/4" 11 3/4"	120	AD240	4X509	9.31	7.63	4
2	F40T12	40	Yes	—	High	90	1 1/4" 2 3/4" 9 1/2"	120	RSHM240	2X656	14.37	11.78	4 1/2
TRIGGER START (PREHEAT WITH STARTER NOT REQ'D)—14 TO 20 WATT													
1	F14T12	14	No	2	Low	55	1 3/4" 1 1/8" 6 1/2"	120	RLQ-120	2X946	6.23	5.11	2
1	F15T8	15											
1	F15T12	15											
1	F20T12	20											
1	F20T12	20	No	2	Low	55	1 3/4" 1 1/8" 6 1/2"	120	RLQ120-TP	5X791†	7.41	6.08	2
RAPID START CIRCLINE—22 & 32 WATT													
2	FC8T9 & FC12T10	22 & 32	No	3	Low	55	1 1/4" 2 3/4" 6 1/2"	120	RS22-32	2X588	8.75	7.18	2 1/4

(*) Electric Testing Lab; Certified Ballast Manufacturers.

(†) CODE EXPLANATIONS:

1. Open-type construction.
2. Requires circuit-interrupting lamp holder.
3. Rapid start; tubeholders attached to leads.

(†) CLASS P BALLAST PROTECTION. Has built-in thermal protector. Designed to be used in "P" rated fixtures only.

(†) Same as 5X647 except operates 16" cooler for long service life. All ballasts are UL Listed.

(*) Electric Testing Lab; Certified Ballast Manufacturers.

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1. Open-type construction.
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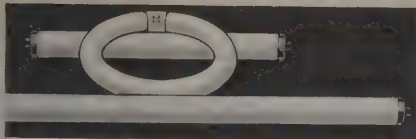
(†) Same as 5X647 except operates 16° cooler for longer service life. All ballasts are UL Listed.

Interchangeable ballast replacement data. Order replacement by our Stock No. listed below.

GE Model	Universal Model	Jefferson Model	Advance Model	Stock No.
6G1020	446	300-7701	RQM2S40	2X599
8G1020	446LTCF	300-7701-800	RQM2S40-TP	5X647
8G1075	413BTCF	234-3071-800	RL-140-TP	5X788
8G1076	413B	234-3071	RL-140	4X506
8G1025	446VLHTCF	300-9701-800	RM2S40-TP	5X792
6G1600	213BR	300-1151	SM2E40-S	4X507
6G1011	820LH	254-2791	SM2E75-S	2X600
6G1851	806BRTCP	254-2791-800	ADM2E75-S-TP	5X648
89G850	820BR	255-541	ADM2E75-S-3	4X508
89G381	201D		LC-14-20C	2X463
6G3706	202B	234-3021	L-140F	2X289
89G800	203	255-121	AD240	4X509
6G1000	205	302-881	RSHM240	2X656
6G3560	546B		RLQ-120	2X946
8G1141	480SLHTCP	254-7721-800	RC-2S110-TP	5X789
6G1100-G10	449RSWS		RS-22-32	2X598
6G1141	480SLH	254-7721	RC-2S110	4X769
8G1201A	930CTCP	254-1961-800	RS-2S200-TP	5X790
6G1201A	930C	254-1961	RS2S200	4X770
8G3560	546BTCF		RLQ-120-TP	5X791
8G1030	443-L-TCP	300-7708-800	VQM2S40-TP	6X065
6G1151	487-S-LH	300-7723	VC-2S110	6X066
6G1211	937-K	254-1618	VS2S200	6X067
6G1015	827-BR	254-2798	VSM2E75-S	6X068
8G1015	827-BR-TCP	254-2798-800	VSM2E75-S-TP	6X069

SYLVANIA 8 to 215 WATT FLUORESCENT TUBES

PREHEAT, HIGH OUTPUT, RAPID START, SLIMLINE AND CIRCLINE TUBES



Cool White used mostly for general offices, stores, plants and homes.

Daylight best for close matching as in examining fabrics, color selection, etc.

Warm White has similar uses as cool white but emits a softer, less glaring light.

PREHEAT (Starter Required) FLUORESCENT TUBES

PRICED AND SOLD PER TUBE; SHIPPED IN FULL CARTON QUANTITY MULTIPLES ONLY

Its	Mfr. Model	Color	Base	Size L x Dia.	Lumens	Average Rated Life, Hours†	Stock No.	Retail	Each	Carton Qty. Each	Tubes Ctn.	Wt. Ctn.
8	F8T5/CW	Cool White	Med. Bipin	12x $\frac{5}{8}$ "	380	7500	2V235	\$3.55	\$2.41	\$2.13	24	2 $\frac{1}{4}$
8	F15T8/CW	Cool White	Med. Bipin	18x1	865	7500	1V173	2.70	1.84	1.62	6	1
8	F15T8/D	Daylight	Med. Bipin	18x1	740	7500	1V167	3.15	2.14	1.89	6	1 $\frac{3}{4}$

RAPID START (No Starter Required) TUBES. Also for PREHEAT FIXTURE with Starter

5	F15T12/CW	Cool White	Med. Bipin	18x1 $\frac{1}{2}$	780	7500	2V429*	2.55	1.73	1.53	24	9 $\frac{3}{4}$
5	F20T12/CW	Cool White	Med. Bipin	24x1 $\frac{1}{2}$	1220	9000	1V174*	2.55	1.73	1.53	6	1 $\frac{3}{4}$
5	F20T12/D	Daylight	Med. Bipin	24x1 $\frac{1}{2}$	1035	9000	1V170*	2.80	1.90	1.68	6	2 $\frac{1}{4}$
5	F30T12/CW	Cool White	Med. Bipin	36x1 $\frac{1}{2}$	2150	7500	2V300*	3.90	2.65	2.34	24	14
5	F40/CW	Cool White	Med. Bipin	48x1 $\frac{1}{2}$	3150	20000	3V158*	1.83	1.24	1.10	6	4 $\frac{3}{4}$
5	F40/D	Daylight	Med. Bipin	48x1 $\frac{1}{2}$	2600	20000	3V178*	2.23	1.52	1.34	6	4 $\frac{3}{4}$
5	F40/WW	Warm White	Med. Bipin	48x1 $\frac{1}{2}$	3200	20000	3V327*	2.23	1.52	1.34	6	4 $\frac{3}{4}$

SLIMLINE, INSTANT START (No Starter Required) FLUORESCENT TUBES

5	F96T12/CW	Cool White	1-Pin	96x1 $\frac{1}{2}$	6250	12000	3V157	4.10	2.79	2.48	6	11
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HIGH OUTPUT RAPID START (No Starter Required) FLUORESCENT TUBES

5	F96T12/CW/HO	Cool White	Recess Dbl. Contact	96x1 $\frac{1}{2}$	9200	12000	3V181	4.80	3.26	2.88	12	18
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VERY HIGH OUTPUT RAPID START (No Starter Required) FLUORESCENT TUBES

5	F96T12/CW/VHO	Cool White	Recess Dbl. Contact	96x1 $\frac{1}{2}$	15500	10000	3V258	9.10	6.19	5.46	12	18
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CIRCLINE RAPID START (No Starter Required) FLUORESCENT TUBES

2	FC8T9/CW/RS	Cool White	4-Pin	8	980	12000	1V860*	6.25	4.25	3.75	12	6
2	FC12T10/CW/RS	Cool White	4-Pin	12	1760	12000	1V776*	6.95	4.73	4.17	12	9 $\frac{3}{4}$
2	FC16T10/CW/RS	Cool White	4-Pin	16	2550	12000	1V880*	8.30	5.64	4.98	12	13

May be used in either Preheat (with starters), or Rapid Start (without starters) fixtures.

(†) LIMITED WARRANTY

fluorescent tubes on this page are warranted against defects in material and workmanship under normal use (rental service excluded) for the rated hour-life of the product

as shown above, provided they have not been physically or electrically misused and have been used with the proper auxiliary equipment. See Limited Warranty Policy in Index.



For 48" Tube
Double Pin
End Caps

\$1.35

Lots 12



For 96" Tube
Single Pin
End Caps

\$2.81

Lots 12

FLUORESCENT TUBE SAFETY SLEEVES

Fluorescent tube safety sleeves provide full protection against the inherent dangers of tube breakage. Can be used in food processing plants, restaurants; also in stores, offices, warehouses, factories, etc. Sleeve slips easily around tube, retains shattering glass, phosphors if tube breaks, falls or bursts. Fail safe end cap assures a snug fit between tube and sleeve. 48" sleeve has single pin end cap, 96" sleeve has double pin end cap, matching base of tube. Meets safety standards prescribed by NEC (National Electric Code), NSF (National Sanitation Foundation testing lab), U.S. Dept. of Agriculture and Food and Drug Administration, and OSHA (Federal Occupational Safety and Health Act) requirements. When used outdoors, or indoors in low temperature applications, sleeve maintains a warm "air zone" around lamp for more effective and efficient lighting. Product of Thermoplastic Processes, Inc.

Priced and sold per sleeve; shipped in cartons of 12 only

Length	End Cap	Mfr. No.	Stock No.	Retail	Shipped in Cartons of 12 Only Each	Shpg. Wt. Ctn. 12
48"	Double Pin	TP312W/4-12	3V319	\$2.80	\$1.50	\$1.35
96"	Single Pin	TP625S/4-12	3V320	5.20	3.12	2.81

SEE WARRANTY INFORMATION ON PAGE 684

SYLVANIA 25 to 250W INCANDESCENT LIGHT BULBS

General Purpose 130V bulbs, when operated on 120V, will last 2½ to 3 times longer with ¼ less light output than 120V bulbs. This increases the intervals between relamping, resulting in reduced maintenance costs. Similarly longer life will be realized under surging power conditions.

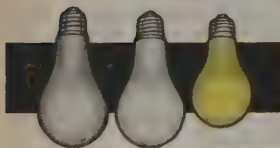
Soft White bulbs have internal coating for more even light distribution and more pleasing appearance.

Rough Service bulbs have heavy duty internal construction to withstand shocks and rough handling as in shop "trouble lites."

Safe Line bulbs have a clear silicone coating to absorb shocks and protect against sudden temperature changes. Coating will contain the glass fragments if bulb breaks.

Safe Line Rough Service bulbs combine the heavy duty construction features of rough service bulbs with the heat resistant shatterproof features of safe line bulbs.

Bug Lite bulbs have special internal coating, radiating yellow light easily seen by humans, yet virtually invisible to insects.



PRICED PER BULB, SOLD EACH OR MULTIPLES OF 2 BULBS IN LESS THAN CARTON QUANTITIES CAN ONLY BE PURCHASED OVER THE COUNTER

GENERAL PURPOSE, INSIDE FROSTED BULBS, 130V

Watts	Operating on 120V Approx. Lumens	Operating on 130V Approx. Lumens	Operating on 120V Average Rated Life Hours*	Operating on 130V Average Rated Life Hours*	Stock No.	Retail	Each	Lots 2, Each	Ctn. Qty. Each	No. of Bulbs Full Ctn.	Shpg. Wt. Per Ctn.
60	660	890	2635	1000	2V327	\$0.66	—	\$0.45	\$0.40	120	12
100	1295	1740	2130	750	2V328	.66	—	.45	.40	120	12
150	2130	2850	2290	750	2V329	.93	\$0.63	—	.56	120	12
200	2945	3940	2365	750	2V337	1.10	.75	—	.66	60	6

GENERAL PURPOSE, INSIDE FROSTED BULBS, 120V

Watts	Approx. Lumens	Average Rated Life Hours*	Stock No.	Retail	Each	Lots 2, Each	Ctn. Qty. Each	No. Bulbs Full Ctn.	Shpg. Wt. Per Ctn.
25	235	1000	2V281	\$0.59	—	\$0.40	\$0.35	24	2½
40	460	1000	2V282	.55	—	.37	.33	24	2½
60	890	1000	2V283	.55	—	.37	.33	24	2½
75	1210	750	2V284	.55	—	.37	.33	24	2½
100	1740	750	2V285	.55	—	.37	.33	24	2½
150	2885	750	2V286	.78	\$0.53	—	.47	24	3½
200	3940	750	2V287	.92	.63	—	.55	60	12

3-WAY SOFT WHITE BULBS, 120V

30/70/100	300, 985, 1285	1200	2V288	1.29	.88	—	.77	12	1½
50/100/150	620, 1580, 2200	1200	2V289	1.29	.88	—	.77	12	1½
50/200/250	620, 3500, 4120	1200	2V336	1.59	1.08	—	.95	12	1½

ROUGH SERVICE, INSIDE FROSTED BULBS, 120V

60	470	1000	2V292	1.23	.84	—	.74	120	12
100	1220	1000	2V293	.92	.63	—	.55	120	12
150	2125	1000	2V303	1.80	1.22	—	1.08	60	6
200	3160	1000	2V304	1.91	1.30	—	1.15	60	6

SAFE LINE BULBS, 120V

100	1650	750	2V390	1.43	.97	—	.86	120	12
150	2480	1000	2V391	2.25	1.53	—	1.35	60	6
200	3280	1000	2V392	2.85	1.94	—	1.71	60	12

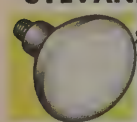
SAFE LINE ROUGH SERVICE BULB, 115-125V

100	1220	1000	2V393	1.65	1.12	—	.99	120	12
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YELLOW "BUG LITE" BULBS FOR OUTDOOR LIGHTING, 120V

60	591	1000	2V290	.81	—	.55	.49	12	1½
100	1008	1000	2V291	.86	—	.58	.52	12	1½

SYLVANIA SUN-LAMP BULB



\$12.15
Lots 3

Provides ultraviolet energy indoors. Has American Medical Association seal of acceptance. Completely self-contained, hermetically sealed bulb with built-in reflector. 275-

watts. R-40, medium base. 7" long. 115V, 60 Hz. Rated 300-hour life.* Requires porcelain socket. (RS). Shpg. wt. ¾ lb.

No. 2V133. Ret. \$20.25. Each \$13.77; lots 3, \$12.15

250 WATT HEAT-LAMP BULBS



\$1.62

For drying, warm-ups, thawing or as brooder bulb. No. 2V294 has red filter, break-resistant, hardened glass. 250W, 115V. Medium base. Sylvania. Shpg. wt. 4 oz. 10,000 hour rated life.*

Glass	Stock No.	Retail	Each	Lots 6	Lots 12
Clear	1V971	\$2.70	\$1.84	—	\$1.62
Red	2V294	6.30	4.28	\$3.78	—

(*) LIMITED WARRANTY

All light bulbs listed on this page are warranted against defects in material and workmanship under normal use (rental service ex-

cluded) for the rated hour-life of the product, provided they were not physically or electrically misused. See Limited Warranty Policy in Index.

SYLVANIA SPOT & FLOODLIGHT BULBS



PAR-38
150 Watt
No. 1V972
\$2.34
Lots 12



R-30
75 Watt
No. 2V011
\$1.44
Lots 24

Widely used for indoor and outdoor lighting applications. Spotlights provide a concentrated beam spread for highlighting effects. Floodlights are used to illuminate large surface areas. Rated life is 2000 hours. See limited warranty below.

Par-38 bulbs are used for indoor and outdoor applications. They are more ruggedly constructed and produce a more concentrated beam than either R-30 or R-40 bulbs.

Par-38 130V bulbs when operated on 120V, will last 2½ to 3 times longer with ¼ less light output than 120V bulbs. This increases the intervals between relamping, resulting in reduced maintenance costs. Similarly longer life will be realized under surging power conditions.

R-30 or R-40 bulbs are used for indoor applications.

PAR-TYPE SPOT & FLOODLIGHT BULBS, 120V

Type	Watts	Application	Base	Manufacturer's Model	Stock No.	Retail	Each	Full Carton Each	Qty.	Wt. Ea.
AR-38	150	Spot, Out/Indoor	Med.	150 Par/SP	1V972	\$3.90	\$2.65	\$2.34	12	12 oz.
AR-38	150	Flood, Out/Indoor	Med.	150 Par/FL	1V290	3.90	2.65	2.34	12	12 oz.

PAR-TYPE FLOODLIGHT BULB, 130V

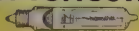
AR-38	150	Flood, Out/Indoor	Med.	150 Par/FL	2V394	4.65	3.16	2.79	12	12 oz.
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R-TYPE FLOODLIGHT BULBS, 120V

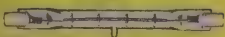
30	75	Flood, Indoor	Med.	75R30/FL	2V011	2.40	1.63	1.44	24	4 oz.
40	150	Flood, Indoor	Med.	150R40/FL	1V292	2.65	1.80	1.59	24	8 oz.
40	300	Flood, Indoor	Med.	300R40/FL	2V411	3.80	2.58	2.28	24	8 oz.

\$YLVANIA TUNGSTEN HALOGEN QUARTZ BULBS

No. 2V265
Lots 12
\$8.28



No. 2V384
Lots 12
\$9.90



Replacement bulbs are not interchangeable—wattage, and base type must match fixture. No. 2V265 & 2V266 are miniature candelabra-type bulbs with screw-in base (Mini-Can). No. 2V384 is recessed single contact type (RSC). 120V.

lg.	Watts	Mfr. Model	Average Rated Life Hours*	Approx. Lumens	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
A	250	250Q/CL	2,000	5,000	2V265	\$13.80	\$9.38	\$8.28	2 oz.
A	500	500Q/CL	2,000	10,000	2V266	15.80	10.74	9.48	2 oz.
B	500	500T3Q/CL	2,600	9,500	2V384	16.50	11.22	9.90	2 oz.

SYLVANIA HIGH INTENSITY DISCHARGE BULBS

Mercury Vapor, Metal Halide, High Pressure Sodium Types

Widely-used mogul base HID bulbs for low cost, indoor/outdoor high efficiency lighting. Use bulbs only with properly-ballasted fixtures. Mercury vapor bulbs are deluxe, color-corrected type, giving slight blue-white cast. Use in any position. Metal halide bulbs offer improved white color and higher light output over mercury. High pressure sodium bulbs give more light than any bulb available, give golden-white color. Metal halide, high pressure sodium bulbs listed for use in fixtures with bulb base in up position. Consult fixture nameplate or manufacturer for proper bulb type.

\$7.56

Lots 6
No. 2V331



MERCURY VAPOR BULBS

Watts	Manufacturer's Model	Color Light	Approx. Initial Lumens	Average* Rated Life-Hours	Installation Position	Stock No.	Retail	Each	Ctn. Qty. Each	Bulbs Ctn.	Shpg. Wt.
75	H39KC-175/DX	Bluish-White	8,500	24,000	Any	2V331	\$12.60	\$8.57	\$7.56	6	8 oz.
50	H37KC-250DX	Bluish-White	13,000	24,000	Any	2V449	20.60	14.01	12.36	12	12 oz.
40	H33GL-400DX	Bluish-White	23,000	24,000	Any	2V358	17.05	11.59	10.23	6	1
40	H36GW-1000DX	Bluish-White	63,000	24,000	Any	2V450	34.65	23.56	20.78	6	1½

METAL HALIDE BULB

40	M400BU/OR	White	34,000	15,000	Base Up	2V451	34.50	23.46	20.70	6	1
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HIGH PRESSURE SODIUM BULBS

50	LU150/55V-BU	Golden-White	16,000	16,000	Base Up	2V452	56.00	38.08	33.60	6	4 oz.
40	LU400BU	Golden-White	50,000	20,000	Any	2V453	60.00	40.80	36.00	6	12 oz.

(*) LIMITED WARRANTY

bulbs on this page are warranted against defects in material and workmanship under normal use (rental service excluded) for the rated hour-life of the product, provided they

have not been physically or electrically misused and have been used with the proper auxiliary equipment. See Limited Warranty Policy in Index.

SEE WARRANTY INFORMATION ON PAGE 684

DESK/TABLE LAMPS

Convenient 3-Prong Outlet enables typewriters, calculators, radios, clocks or other small appliances to be plugged into base of these lamps (not available on Nos. 2V387 and 2V388).

Fully Adjustable Arms direct light as desired. For use in offices, homes, schools, etc.

19" Reflectors use 15W (F15T8) fluorescent tubes not included. See Index under Tubes, Fluorescent.

Push Button On-Off Switch. Heavy die cast construction with baked-on enamel brown finish.

110-125V, 60 Hz. UL listed. Dayton brand.

A Weighted Base with 3-Prong Outlet and pencil well. 30" feather-touch, spring activated, full-swivel arm. 9'3" 3-wire grounded cord set. Uses two 15W tubes, not included. Shpg. wt. 21 lbs.

No. 2V348. Weighted Base Lamp, Less Tubes. Retail \$66.50. Each.....\$36.58

B Weighted Base With Pencil Well. Brass plated 5½" arm with 8" adjustable gooseneck. Uses one or two 15W (F15T8) tubes, not included.

No. Tubes	Stock No.	—Less Tubes— Retail Each		Shpg. Wt.
1	2V388	\$33.45	\$18.40	10
2	2V387	36.95	20.32	10

C Clamp-On with 3-Prong Outlet in base and 26" feather-touch full-swivel arm. 9'3" 3-wire grounded cord set. Uses two 15W tubes, not included. Shpg. wt. 8 lbs.

No. 2V346. 26" Arm Clamp-On Lamp, Less Tubes. Retail \$50.45. Each.....\$27.75

D Clamp-On with 3-Prong Outlet in base and 45" feather-touch, spring activated, full-swivel arm. 9'3" 3-wire grounded cord set. Uses two 15W tubes, not included. Shpg. wt. 9 lbs.

No. 2V347. 45" Arm Clamp-On Lamp, Less Tubes. Retail \$55.55. Each.....\$30.55

MAGNIFIER LAMPS

5" Dia., 3 Diopter Lens produces 2 to 1 distortion-free magnification at 12". Used for inspection, close work, miniature components assembly, fine print reading.

3-Prong Outlet allows small appliances to be plugged into lamp base or a number of lamps to be connected in a series from one power source.

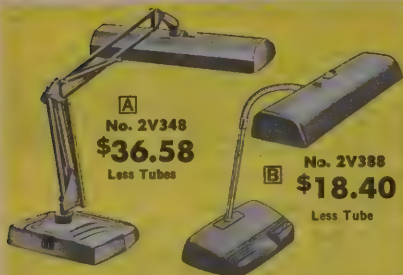
Feather-Touch, Spring Activated full-swivel arm enables lamp to fit in close quarters, using minimum table space. Swings out of way when not in use. No. 2V353 has 45" arm and No. 2V350 33" arm.

Use Cool, Efficient 22W Circline (FC8T9) fluorescent tube, not included, to flood work area with glare-free light. See Index under Tubes, Fluorescent.

Sturdy Double-Bolt Padded Clamp-On mounting. Push Button On-Off Switch. Heavy die cast construction with baked-on silver gray finish.

110-125V, 60 Hz. UL listed. Dayton brand.

Arm Length	Stock No.	—Less Tubes— Retail Each		Shpg. Wt.
45"	2V353	\$71.15	\$39.13	8
33"	2V350	63.40	34.87	5



A
No. 2V348
\$36.58
Less Tubes

B
No. 2V388
\$18.40
Less Tube



C
No. 2V346
\$27.75
Less Tubes

D
No. 2V347
\$30.55
Less Tubes

Outlet in base connects lamps in series or to other small appliances



33" Arm
No. 2V350
\$34.87
Less Tubes

45" Arm
No. 2V353
\$39.13
Less Tubes

Outlet in base connects lamps in series or to other small appliances

MACHINE-TOOL LAMPS

ugged, fully adjustable incandescent lamps
eal for use on lathes, grinders, presses,
enches, etc. Withstand strong vibrations and
aintain desired position. Heavy die cast steel
nstruction. On-Off switch on bulb head.
aked-on green finish. 115V, 60 Hz. UL listed.

Collar Disc Swivel Arm Sections. 36" arm,
adjustable pivots at base and reflector. 5" reflector
accepts up to 75W bulb. Oval light pattern.
ylon heat shield over reflector. Screw-down
use for permanent installation. Shpg. wt. 4 lbs.
No. 2V341. Less bulb. Retail \$34.95. Each, \$21.49

Tension Adjustment Knobs On Arm Sections.
ouble wall air cooled shade. 6" dia. reflector,
p to 75W bulb. 24" arm. Universal base for
lamp-on or permanent wall and surface mount-
g. Shpg. wt. 4 lbs.

No. 2V356. Less bulb. Retail \$29.90. Each, \$16.45

18 & 36" Flexible Arms. Arms adapt to any
osition. Parabolic shade accepts up to 60W bulb,
n be turned full 360°. Universal base for clamp-
on or permanent wall and surface mounting.

Arm	Stock No.	—Less Bulb— Retail Each		Shpg. Wt.
18"	2V354	\$16.05	\$8.83	2 3/4
36"	2V424	19.00	10.45	4

Spring-Loaded Ratchet Arm Lock. 18" arm.
dia. shade, up to 75W bulb. Universal base
r clamp-on or permanent wall and surface
mounting. Shpg. wt. 3 lbs.

No. 2V385. Less bulb. Retail \$20.25. Each, \$11.14

WORK LAMPS

lamp-on work lamps for use on assembly lines,
enches, drafting boards, machines, etc. Adjust-
le arms maintain desired position. Heavy, die
cast steel construction. On-Off switch on bulb
ad. 115V, 60 Hz. UL listed.

Combination Fluorescent and Incandescent.
rovides blend of glare-free lighting. 3-prong
let enables small appliances to be plugged
o lamp base or lamps may be connected in a
ies from one power source. 45" feather-touch,
ing activated, full-swivel arm. Uses 22W cir-
ne (FC8T9) fluorescent tube and up to 60W
andescent bulb, not included. 4-position
tch allows selection of fluorescent, incan-
cent or blend of both. Double-bolt clamp.
y 3-wire grounded cord set. Baked-on enamel
wn finish. Shpg. wt. 10 lbs.

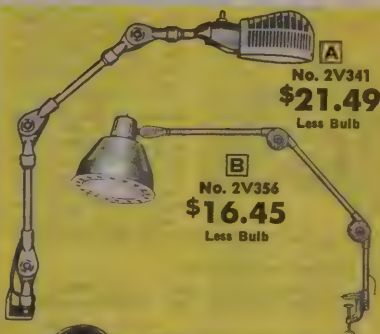
No. 2V351. Less bulbs. Retail \$56.25. Each \$30.94

45" Feather-Touch, Spring Activated full-
wall arm. 7 1/2" double wall air cooled shade,
ted top & bottom. Accepts up to 75W incan-
cent bulb. 8 ft. 3-wire grounded cord set.
ted-on brown finish. Shpg. wt. 5 lbs.

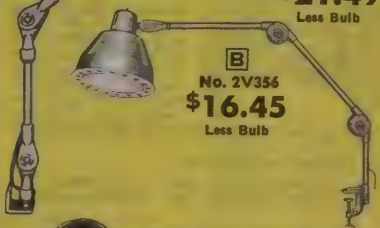
No. 2V349. Less bulb. Retail \$34.45. Each \$19.50

25 & 33" Feather-Touch Spring Activated
n. 6 1/2" reflector for maximum spread distri-
on. Accepts up to 60W incandescent bulb.
ooling louvers on shade. Red or black finish.

Arm Length	Stock No.	—Less Bulb— Retail Each		Shpg. Wt.
25"	2V345	\$26.60	\$14.63	3
25"	2V344	26.60	14.63	3
33"	2V426	31.15	17.13	4



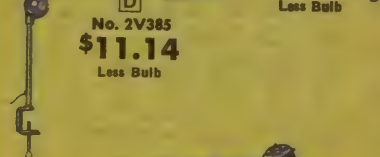
A
No. 2V341
\$21.49
Less Bulb



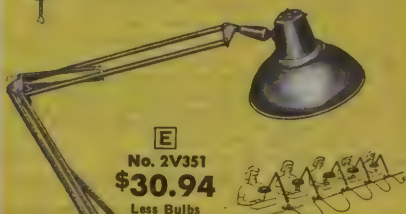
B
No. 2V356
\$16.45
Less Bulb



C
18" ARM
No. 2V354
\$8.83
Less Bulb



D
No. 2V385
\$11.14
Less Bulb

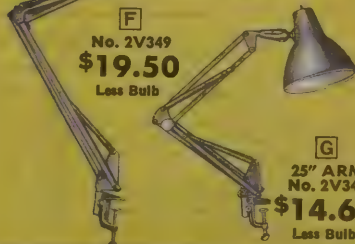


E
No. 2V351
\$30.94
Less Bulbs

Outlet in No. 2V351 enables
lamp to be connected in
series or to other appli-
ances



F
No. 2V349
\$19.50
Less Bulb



G
25" ARM
No. 2V345
\$14.63
Less Bulb



ZINC CARBON AND ALKALINE BATTERIES

Standard and Heavy Duty Types. Special Purpose Sizes for Fences, Ignition, Alarms, Hobbyists, Etc.

AA, C, D, 9V TRANSISTOR SIZES

NEW



Zinc Carbon Batteries are often used for general applications in flashlights, radios, meters, clocks, transceivers.

Alkaline Heavy Duty Batteries are more efficient than zinc carbon types in providing power under high-drain continuous duty conditions.

Lasts 2 to 3 times

longer in calculators, radios, cassette recorders, cameras, toys.

Sealed-In-Steel Construction.

Special Limited Warranty from Ray-O-Vac against battery leakage. See limited warranty policy below.

Exclusive Green Take-Off Tape prevents mixing old and new batteries. On all but Nos. 2V414 and 2V416. With tape intact on positive terminal, stored batteries cannot accidentally touch, causing loss of battery life.

SOLD IN FULL CARTONS ONLY

Battery* Size	Mfr. Volts	Stock Model	Retail No.	Each Carton	Batt. Per Carton	Carton Shpg. Wt.
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ZINC CARBON BATTERIES

D	1½	2D-4	2V454	\$1.60	\$1.05	4	12 oz.
C	1½	1C-4	2V455	1.60	1.05	4	7 oz.
AA	1½	7AA	2V414	7.20	4.68	24	1
Transistor	9	1604	2V416	10.68	7.32	12	1½

ALKALINE HEAVY DUTY BATTERIES

C	1½	814	2V421	10.80	7.02	12	1½
AA	1½	815	2V422	3.20	2.08	4	3 oz.

(*) See Limited Warranty Policy Below.

Free Ray-O-Vac Battery Dispenser with \$25.00 order of assorted Ray-O-Vac batteries. Compact, self-service, see-thru counter display holds 96 D and 48 C batteries, not included. Ray-O-Vac brand (F-95). Shpg. wt. 6½ lbs.

No. 2V425. Battery Dispenser. Each.....\$4.50

FREE with \$25.00 order of assorted batteries.

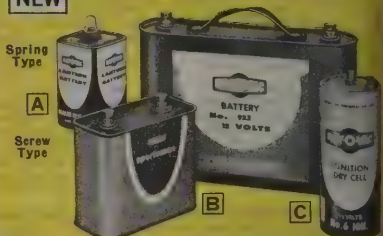
BATTERY LIMITED WARRANTY

If any device using Ray-O-Vac brand batteries, Nos. 2V416, 2V421 or 2V422, is damaged by battery leakage, send the device and battery, prepaid, to Ray-O-Vac Division, ESB Incorporated, Madison, WI 53703. **DO NOT RETURN DEVICE OR BATTERY TO DEALER OR DISTRIBUTOR.** Ray-O-Vac will either repair or replace the device and battery at no additional cost.

SPECIAL PURPOSE ZINC CARBON SIZES

NEW

Sealed-In-Steel Construction



A 6 VOLT LANTERN BATTERIES

For hobbyists, emergency lighting, alarm systems and other applications. No. 2V415 has screw type terminals and No. 2V423 spring terminals. Ray-O-Vac brand.

Battery Terminals	Volts	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
Screw	6	918	2V415	\$5.25	\$3.51	3
Spring	6	941	2V423	2.38	1.58	1½

B FENCE BATTERIES

For electric fencing, emergency lighting, alarm systems and other heavy duty applications. Screw terminals. Carrying handle. Ray-O-Vac brand.

Volts	Mfr. Model	Stock No.	Retail	Each	Shpg. Wt.
6	641	2V417	\$ 9.98	\$ 6.65	3
12	922	2V418	16.78	11.19	7

C 1½ VOLT IGNITION BATTERY

Widely used in alarm systems, test equipment, hobby work. Screw terminals. Ray-O-Vac brand (6 Ign. S). Shpg. wt. 2½ lbs.

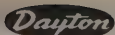
No. 2V419. Ray-O-Vac 1½ Volt Ignition Battery. Retail \$2.80. Each.....\$2.02

BATTERY NUMBER INTERCHANGE GUIDE

Order battery replacement by Grainger stock number.

Volts	Description	NEDA* No.	Ray-O-Vac No.	Eveready No.	Burgess No.	Mallory No.	Grainger Stock No.
1½	"D" Zinc Carbon	13F	2D-4	950	2	M-13F	2V454
1½	"C" Zinc Carbon	14F	1C-4	935	1	M-14F	2V455
1½	"AA" Zinc Carbon	15F	7AA	915	910	M-15F	2V414
1½	Ignition Battery	905	6 Ign. S	6 Ign. S	6 Ign.	M-905	2V419
6	Fence Battery	907	641	1461	S461	M-907	2V417
12	Fence Battery	922	922	1463	2G8H	—	2V418
1½	"C" Alkaline	14A	814	E83	AL-1	MN-1400	2V421
1½	"AA" Alkaline	15A	815	E91	AL-9	MN-1500	2V422
6	Screw Terminals Lantern	918	918	731	TW1	M-918	2V415
6	Spring Terminals Lantern	908	941	509	F4M	M-908	2V423
9	Transistor Zinc Carbon	1604	1604	216	2U6	M-1604	2V416

(*) National Electrical Distributors Association.



D-CELL INDUSTRIAL FLASHLIGHTS

For Electricians, Maintenance Men, Mechanics, Sportsmen. Recessed Bulbs, Unbreakable Lenses

A PROFESSIONAL



- High-Impact Plastic Case
- Sure-Grip Ribs
- Switchguard
- Spare Bulb Compartment
- Shock-Absorbing Socket

PROFESSIONAL

\$3.11 No. 2V407
Lots 12

PROFESSIONAL FOR HAZARDOUS LOCATIONS

\$4.65 No. 2V406
Lots 12

PROFESSIONAL WITH CONTINUITY TESTER

\$7.24 No. 2V405
Lots 12

B TRADESMAN



- High-Impact Plastic Case
- Sure-Grip Ribs
- Switchguard
- Hanger Ring
- Spare Bulb Compartment
- Shock-Absorbing Socket

TRADESMAN

\$1.25 No. 2V403
Lots 12

TRADESMAN WITH MAGNET

\$1.79 No. 2V404
Lots 12

C ECONOMY



- Impact-Resistant Plastic Case
- Easy-Grip Ribs
- Shock-Absorbing Socket

ECONOMY

87c
No. 2V408
Lots 12

PROFESSIONAL, Nos. 2V405, 2V406, 2V407. Rugged plastic case unaffected by oil, grease, water, alkalines, low KB solvents or alcohol. Tensile strength over 5,000 psi. Dielectric strength 50,000V. Designed to withstand temperature extremes from -40° to 150°F. Tapered end cap (Nos. 2V405, 2V407) lets flashlight be pocketed without snagging. Shock-absorbing socket protects bulb from damage. Plated steel reflector, recessed bulb compartment.

2V406. For hazardous location use in methanol/air mixtures. Safety circuit breaker minimizes explosion potential. Meets Bureau of Mine standards; UL listed for Class I, Groups C & D. International orange case.

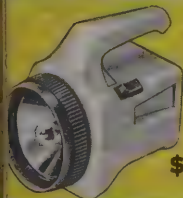
No. 2V405. Continuity tester for circuits up to 10 Ohms. 36" test leads with alligator clips. Operates as standard flashlight when jack is unplugged.

B TRADESMAN, Nos. 2V403, 2V404. High density molded polyethylene resists acids, alkalines, oil, water, grease, gas, alcohol & organic solvents. Tensile strength 4600 psi. Dielectric strength of 50,000V. Steel reinforced polystyrene reflector. Shock-absorbing socket. Spare bulb compartment. No. 2V404 has convenient magnet.

C ECONOMY, No. 2V408. Impact-resistant plastic case. Resists oil, grease, water, etc. Oversize switch. Steel reinforced plastic reflector.

These Flashlights Use 2 D-Size Batteries, Not Included—Batteries Listed On Facing Page

Description	Bulb	Color Case/Trim	Hanger Ring	Switch Guard	Stock No.	—Less Batteries—		Shpg. Wt.
						Retail	Each	Lots 12
Professional, Standard	PR6	Red/Yellow	—	Yes	2V407	\$4.79	\$3.35	\$3.11 8 oz.
Professional, Hazardous Location	PR6	Orange/Yellow	Yes	Yes	2V406	7.15	5.01	4.65 8 oz.
Professional, Continuity Tester	PR6	Red/Yellow	—	Yes	2V405	11.15	7.80	7.24 8 oz.
Tradesman, Standard	PR6	Black/Yellow	Yes	Yes	2V403	2.29	1.50	1.25 3 oz.
Tradesman, Magnet	PR6	Black/Yellow	Yes	Yes	2V404	2.99	2.09	1.79 4 oz.
Economy	PR2	Black/White	—	—	2V408	1.49	1.04	.87 3 oz.



\$1.92
Lots 12

HIGH-POWER 6 VOLT LANTERN LIGHT

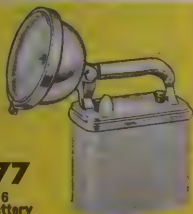
Ideal for maintenance men and repairmen, farmers, campers, sportsmen, etc. Unbreakable, weather-resistant case will not dent, rust or corrode. Recessed plastic lens. Open-handle design for carrying on tool pouch or tucked under belt. Positive-action slide switch. Battery contact plate eliminates connecting wire to battery. PR-13 bulb included. Uses square 6V lantern battery, not included; see (No. 2V423). White with red head. Dayton brand. Shpg. wt. 5 oz.

No. 2V409. 6V Lantern Light, less battery. Retail \$2.95. Each \$2.07; lots 12 **\$1.92**

6 VOLT CLAMP-ON LANTERN

Weatherproof, Push-Button Switch. Chromed Steel Construction. Sealed Beam Bulb

6 volt clamp-on hand lantern provides portable battery-powered, high intensity light. Fully chromed 20 gauge steel construction. 40,000 candlepower Par-36 sealed beam bulb in vertically adjustable swivelhead. Push-button switch protected by weatherproof rubber boot. Lantern attaches to 6V battery, type NEDA 918 (No. 2V415), not included. See opposite page battery listings. Comes in display carton. Big Beam brand (666). Shpg. wt. 1 1/4 lbs. **No. 2V430.** Clamp-on Lantern, Less Battery. Retail \$11.95. Each \$8.37; lots 6 **\$7.77**



\$7.77
Lots 6
Less Battery

Dayton**FULL-RANGE ELECTRONIC LIGHT DIMMER**

Replaces Existing Wall Switch. For Lighting Effects in Homes, Stores, Restaurants, Etc.

600
Watt

No. 4X603 Turn of dial varies incandescent lighting through the full range of brightness from full-on to off. Use only the electricity needed and save energy. Adjust lighting to best level for reading, dining, night-lighting, etc. For stores, office lobbies, hospitals and other locations to create special lighting effects. 600W units have Push-On/ Push-Off switch. Turned on and off by touching dial without disturbing light level setting. Uses existing wall switch-plate. 1000W unit has rotary On-Off switch and comes equipped with smooth (no screws) white enameled faceplate. Easy to install; replaces conventional and 3-way wall switches. Instructions included. UL listed. For incandescent lighting only, not for fluorescent.

Type	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
600W Conventional	4X603	\$10.75	\$4.37	\$4.12	6 oz.
600W 3-Way	4X852	18.30	9.82	8.76	6 oz.
1000W Conventional	4X853	43.15	27.07	24.98	10 oz.

DROP OPAL GLASS RECESSAmple Side Lighting. Indoor or Outdoor Use
Parabolic Reflector. Prewired or Nonwired

Nonwired

\$10.93

100W



Prewired

\$12.62

100W

Attractive drop opal glass recess units provide highest amount of side light with minimum glare. Wide, contoured anodized satin aluminum frame and black lite-tite gasket, hinged with concealed torsion spring for easy relamping. Patented 2-piece recess box designed for quick, easy installation. Parabolic drop-out reflector provides maximum lumen output, uniform light distribution. Prewired models include large-size junction box with ample knockouts, bar hangers for 14 to 18" joist spacing. 115V, 60 Hz. UL listed. Halo brand.

Max. Watts	Box Size W	Box Size L	Box Size H	Stock No.	—Less Bulbs— Retail	Each	Shpg. Wt.
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NONWIRED MODELS

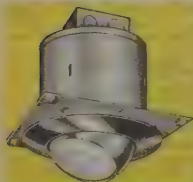
100	8 1/4"	8 1/4"	4 1/4"	2V195	\$17.75	\$10.93	3
150	10 1/4"	10 1/4"	5"	2V196	23.86	13.79	4

PREWIRED MODELS

100	8 1/4"	8 1/4"	4 1/4"	2V085	19.97	12.62	7
150	10 1/4"	10 1/4"	5"	2V086	26.08	16.32	9

RECESSED EYEBALL LITE

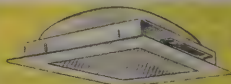
Uses 75W Reflector Bulb. Rotates 358°

\$13.69

Adjustable sphere housing directs light beam where desired to highlight displays, products, draperies, pictures, etc. Sphere housing rotates 358° with 42° vertical adjustment. Uses 75 watt R-30 reflector bulb, not incl. 8" dia. frame and sphere housing have

satin brass finish. 115V, 60 Hz. UL listed. Halo brand (107-78). Shpg. wt. 4 1/4 lbs.

No. 2V165. 8" Recessed Eyeball Lite, less bulb. Retail \$25.41. Each **\$13.69**

ALBALITE LENS RECESSFor 100 or 150W Bulbs. Indoor or Outdoor Use
Prewired or Nonwired. 2-Piece Housing

Nonwired

\$7.59

100W



Prewired

\$9.91

100W

Albalite flat glass recess boxes are ideal for low ceiling general lighting applications. Patented 2-piece housing designed for quick, easy installation. Parabolic drop-out reflector assures greater lumen output. Albalite flat glass lens is encased on extra-wide anodized satin aluminum frame—hinged with concealed torsion spring for easy relamping. Prewired models include 29 cu. in. junction box with ample knockouts, bar hangers for 14 to 18" joist spacing. Black lite-tite gasket. 115V, 60 Hz. UL listed. Halo brand.

Max. Watts	Box Size W	Box Size L	Box Size H	Stock No.	—Less Bulbs— Retail	Each	Shpg. Wt.
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NONWIRED MODELS

100	8 1/4"	8 1/4"	4 1/4"	2V190	\$14.31	\$7.59	3 1/2"
150	10 1/4"	10 1/4"	5"	2V192	19.75	10.47	5"

PREWIRED MODELS

100	8 1/4"	8 1/4"	4 1/4"	2V193	16.53	9.91	6"
150	10 1/4"	10 1/4"	5"	2V194	21.97	12.32	7 1/2"

INDOOR-OUTDOOR LITE

Weatherproof Wall Type. Convenience Outlet

**\$6.85**

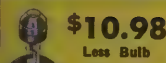
Aluminum wall lite for porches, in halls under eaves, etc.

Opal white screw-on diffuser handles up to 100 watt bulb, not incl. Weatherproofed by neoprene gasket. Corrosion resistant, die cast aluminum frame has lacquered satin aluminum finish. Convenience outlet let. 6 1/8" H, 5 3/4" W. Fits 3 or 4 outlet box. 115V, 60 Hz. UL listed. AFco brand (11C0). Shpg. wt. 2 3/4 lbs.

No. 2V067. Retail \$9.75. Each **\$6.85**

Use Fast Grainger Supply Service
Large Stock Maintained Near You

AFCO SPOT AND FLOODLIGHTS



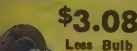
\$10.98
Less Bulb

A



\$13.12
Less Bulbs

OUTDOOR FLOODLIGHTS



\$3.08
Less Bulb

B



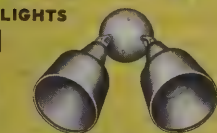
\$5.05
Less Bulbs



\$6.97
Less Bulbs

INDOOR LIGHTS

C



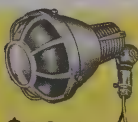
\$5.88
Less Bulb

\$11.00
Less Bulbs

300 WATT FLOODLIGHT



White
Stocks
Last



\$19.36
Wall Mount
Less Bulb

\$37.72 **Dayton**
Portable
Less Bulb

Dayton industrial/commercial floodlights for indoor and outdoor applications. Heavy duty weatherproof die cast aluminum housing, fully closed and gasketed. Heat tempered glass lens, lens guard. Porcelain socket with nickel-plated contacts accepts up to 300W PAR or R medium base bulb not included. Ample heat-dissipating fins. 115V, 60 Hz. UL listed. Wall Mount, No. 2V402. Full swivel adjustable. 1/2" NPT. Attaches to handy or 1900 box. Tripod Unit, No. 2V399. Stay-cool carrying handle, locking adjustment knobs. Tripod base; rubber shock, slipproof pads. 18" 16/3 SJT power cord, U-ground molded plug.

Mounting	Stock No.	Retail	White Stks. Last	Shpg. Wt.
Wall	2V402	\$30.73	\$19.36	3 1/4
Portable	2V399	59.95	37.72	6

PHOTO-ELECTRIC FLOODLIGHT

A Automatically Turns on at Dusk—Off at Dawn

Automatic outdoor lighting for commercial and industrial use. Daylight-actuated photocell turns light on at dusk, off at dawn. Uses PAR-38, 150W medium base reflector bulbs, not included; see Index under Bulbs, Lamp. 4" round adapter plate for mounting. For 115V, 60 Hz only. UL listed. AFCO brand.

Bulbs	Stock No.	Retail	Less Bulbs Each	Shpg. Wt.
1	2V280	\$15.75	\$10.98	1 1/4
2	2V302	18.75	13.12	1 1/4

CHROME PLATED FLOODLIGHT

B Outdoor Lights For Par-38 & R-40 Lamps.

Weather Resistant Leads and Gaskets

Chromium plated swivel-type die cast aluminum outdoor bulb holders for low-cost spot and floodlighting of commercial and residential buildings, gardens, yards, displays, etc. Use 115V PAR-38 or R-40 sealed beam bulbs, not included; see Index under Bulbs, Lamp. Medium base with phenolic sockets, wired weatherproof leads. Weather resistant Hy-Car gaskets. Adjustable to any angle. 4" round adapter plate for 3/4" and 4" outlet boxes. 1/2" tapped opening. UL listed. AFCO brand.

Bulbs	Stock No.	Retail	Less Bulbs Each	Shpg. Wt.
1	1V920	\$4.05	\$3.08	10 oz.
2	1V921	7.20	5.05	1 1/4
3	1V922	9.98	6.97	2

INDOOR SPOTLIGHT

Wall or Ceiling Mount. Positive-Locking Swivel.

Wired Porcelain Socket. For 3/4", 4" Outlet Box

Provides graceful utility and decorative lighting for homes, stores, offices, displays, etc. May be mounted on wall or ceiling. Attractive silver gray aluminum reflector, 5 1/2" dia. x 7 1/2", with matching canopy. Positive-locking chrome plated swivel allows for full adjustment in any position. Completely wired porcelain socket with flexible leads. Fits on 3/4" or 4" outlet box, mounting hardware provided. Uses R-30, R-40, or up to 150W standard bulb, not included; see Index under Bulbs, Lamp. 115V, 60 Hz. UL listed. AFCO brand.

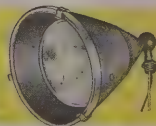
No. Bulbs	Stock No.	Retail	Less Bulbs Each	Shpg. Wt.
1	2V377	\$ 8.40	\$ 5.88	1 1/4
2	2V378	15.75	11.00	2

QUARTZ SPOTLIGHT

\$14.51 250 Watts

White Stks. Last

All weather industrial iodine quartz bullet lights. Die cast ribbed body. Clear, heat resistant lens and gasket assembly. Anodized aluminum reflector. Adjustable arm. 1/2" NPT knuckle mount with locknut. 6" wire leads. Durable black crackle finish. 115V, 60 Hz. Dayton brand.



Watts	Stock No.	Less Bulb Retail	White Stks. Last	Shpg. Wt.
250	2V400	\$23.50	\$14.51	3
500	2V401	28.21	17.45	3 1/4

For Bulbs, See Index Under Bulbs, Lamp

PHOTO-ELECTRIC SWITCH FOR OUTDOOR LIGHTS

Screws into Standard Medium Base Lamp Socket. Extends Bulb Life. Solid State. 150 Watts



Dayton

\$6.03

Unique photo-electric switch is designed for outdoor lighting such as post lamps, coach lanterns, yard and security lights, etc. Can also be used indoors. Unit simply screws into any standard medium base socket, bulb then screws into switch socket. Long life solid state circuitry gradually applies power to bulb thereby extending bulb life and eliminating false cycling. Adjustable photocell shield. Chimney holder for post lanterns. Polycarbon case. 120VAC, 150 watts maximum. 3 H x 3½" W. UL listed. Shpg. wt. 8 oz. No. 2E358. Photo-Electric Switch. Retail \$8.60. Each.....\$6.03

TWIST-LOCK PHOTO-ELECTRIC SWITCH

Heavy Duty. NEMA 3-Prong Twist-Lock Male Plug. Sensitive, Weatherproof



Dayton

\$5.28

For on-off control of heavy lighting loads such as in parking lots, security lighting etc. Ideal for mercury vapor and fluorescent lighting. Plugs into female NEMA 3-prong receptacle. Weather-tight gasket. Extra-reliable, heavy duty snap switch; no electromagnet relays or bimetallic material. Turns lights on at 1.5 footcandles, off at 4.5. 2000V breakdown gap-type lightning arrestor, up to 5000V jolt protection. 3 to 5 sec. delay avoids false cycling. Operates from -55 to +70°C. Case is resistant to weather and ultraviolet. Date coding for maintenance. For 105-130V, 50/60 Hz. 1000W tungsten, 1800 VA fluorescent or mercury vapor. 3¼ dia. x 2½" H. Shpg. wt. 3 oz.

No. 2E382. Photo-Electric Switch. Retail \$7.55. Each.....\$5.28

2-Yr. Limited Warranty;
See Limited Warranty
Policy in Index

SWIVEL-TYPE PHOTO-ELECTRIC SWITCH

1200 Watt Capacity Swivels 360° in One Plane, 180° in Second Plane



\$7.60

Versatile swivel-base, light-activated switch is ideal for controlling yard lights, billboard lamps, etc. Big replacement market. Completely weatherproof, virtually indestructible. Compound swivel allows precise orientation of photo-electric cell for proper sensitivity. Chrome plated, die cast metal base has ½" male pipe thread for mounting to threaded electrical boxes or pipe couplings. Photo cell and heavy duty thermostatic switches are hermetically sealed in transparent Lexan and polycarbon case. Insensitive to temperature changes. Time delay prevents false cycling due to car headlights, etc. For 120V, 60 Hz; 1200W tungsten, mercury vapor and fluorescent. 5" leads. Shpg. wt. 1 lb.

No. 2E387. Photo-Electric Switch. Retail \$10.85. Each.....\$7.60

1800 WATT PHOTO-ELECTRIC SWITCH

Easily Installed. Adjustable Sensitivity. No False Cycling



Dayton

\$7.95

Trouble-free, light-activated switch has many lighting and control applications. Silver cadmium oxide contacts prevent sticking, have magnetic arc extinguisher for long life. Rotating polarizing filter adjusts light sensitivity threshold for late or early activation; On at 2 to 10 footcandles, Off at 10 to 18 footcandles. Time delay prevents false cycling. Hermetically sealed photocell unaffected by weather or temperature change. ½" thick Lexan plastic case. 1800W tungsten at 120VAC, 1000VA mercury vapor. Male ½" threaded fitting, 8" L leads. 1⅞ H x 1¼ W x 1½" D. Shpg. wt. 3 oz.

No. 2E331. Photo-Electric Switch. Retail \$11.35. Each.....\$7.95

9" REFLECTOR LITE

For Heat, Light and Photo Uses



\$5.56

Widely used with therapeutic and industrial heat bulbs with medium base. 9" aluminum reflector attached to rubber-protected spring clamp base with swivel ball joint. 5½ ft. cord set. 115V. For bulbs, see Index under Bulbs, Lamp. Shpg. wt. 1 lb.

No. 1V403. Less Bulb. Retail \$10.10. Each.....\$5.56

PHOTO-ELECTRIC SWITCH



\$4.97

Automatic photo-electronic switch operates up to 300W light load. Turn On at dusk, Off at dawn. For indoor uses in homes, stores, etc. Plugs into 115V, 60 Hz outlet. Tamperproof photoelectric cell. Unbreakable polypropylene case, beige finish. 3 H x 2½ W x 2" D. UL listed. Dayton brand. Shpg. wt. 5 oz.

No. 2E176. Retail \$7.10. Each.....\$4.97

Get Delivery from Stock on over 95% of the Products in this MotorBook
Grainger Availability and Service Help You Sell More and Net More Profits

Dayton

175W HIGH BAY CONVERT-O-MERC

Converts Incandescent to Efficient Mercury Vapor.
Use in Warehouses, Gymnasiums, Garages, Factories



\$29.17

- Converting to 175W Mercury Vapor lamp provides 64% more efficiency than a 500W incandescent, yet with equal light output. Mercury vapor also lasts 10 times longer with a 20% reduction in operating costs.
- Convert-O-Merc Mounts Directly to any Standard 4" octagon or square outlet box with no mounting hardware required.
- Factory Wired and Assembled for simple one-man installation.
- Spun Aluminum Reflector concentrates light for maximum illumination. 14 dia. x 16½" Height.
- High Reactance 120V NPF Ballast will start bulb to -20°F.
- Cast Aluminum Ballast Housing dissipates heat for cooler operation, longer ballast life.
- Heavy Duty Mogul Base porcelain socket.
- 120V, 60 Hz Operation Only. UL listed. Shpg. wt. 8 lbs.

No. 2V374. Convert-O-Merc, less bulb. Retail \$53.04. Each.....**\$29.17**

Bulb for Dayton Convert-O-Merc

No. 2V331. 175W Bulb. Retail \$12.60. Each**\$8.57**

OUTDOOR COACH LANTERN

Weather-Resistant

\$9.03



Coach lantern has sculptured design shatter-resistant panels and weather-resistant satin black finished metal holder, brass trim. 13 H x 5½" square and extends 6" from wall. For up to 60W bulb, not included. 115V, 60 Hz. UL listed. Shpg. wt. 1½ lbs. Esty brand (470).

No. 1V928. Retail \$16.25. Each**\$9.03**

DELUXE 17" POST LANTERN

\$18.42



Striking 6-panel, 17" Post Lantern reflects the charm of Early American styling. Shatter-resistant panels have sculptured design. Weather-resistant durable satin black finish. Highlighted with brass trim. 17 H x 11" W, overall. Fits 3" dia. post. Handles up to 100 watt bulb, not included. 115V, 60 Hz. UL listed. Esty brand (486). Shpg. wt. 3¼ lbs.

No. 2V223. Retail \$38.95. Each**\$18.42**

STOCK NO./PAGE NO.

CROSS-REFERENCE GUIDE

FOR THIS MOTORBOOK

Available from your Grainger salesman or counterman. Ask for Form 5S1943.

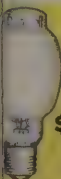
7 FT. STEEL LANTERN POST

Heavy gauge steel with ladder rest cross bar. 3" dia., 7 ft. high. Fits 3" lantern collar. Black finish. Esty brand (100). Shpg. wt. 11 lbs.

No. 3V204. Retail \$19.35. Each.....**\$12.72**

SYLVANIA HIGH INTENSITY DISCHARGE BULBS

Mercury Vapor, Metal Halide, High Pressure Sodium Types



\$7.56

Lots 6
No. 2V331

Widely-used mogul base HID bulbs for low cost, indoor/outdoor high efficiency lighting. Use bulbs only with properly-ballasted fixtures. Mercury vapor bulbs are deluxe, color-corrected type, giving slight blue-white cast. Use in any position. Metal halide bulbs offer improved white color and higher light output over mercury. High pressure sodium bulbs give more light than any bulb available, give golden-white color. Metal halide, high pressure sodium bulbs listed for use in fixtures with bulb base in up position. Consult fixture nameplate or manufacturer for proper bulb type.

MERCURY VAPOR BULBS

atts	Manufacturer's Model	Color Light	Approx. Initial Lumens	Average* Rated Life-Hours	Installation Position	Stock No.	Retail	Each	Ctn. Qty. Each	Bulbs Ctn.	Shpg. Wt.
75	H39KC-175/DX	Bluish-White	8,500	24,000	Any	2V331	\$12.60	\$8.57	\$7.56	6	8 oz.
50	H37KC-250DX	Bluish-White	13,000	24,000	Any	2V449	20.60	14.01	12.36	12	12 oz.
00	H33GL-400DX	Bluish-White	23,000	24,000	Any	2V358	17.05	11.59	10.23	6	1
00	H36GW-1000DX	Bluish-White	63,000	24,000	Any	2V450	34.65	23.56	20.79	6	1¾

METAL HALIDE BULB

00	M400BU/OR	White	34,000	15,000	Base Up	2V451	34.50	23.46	20.70	6	1
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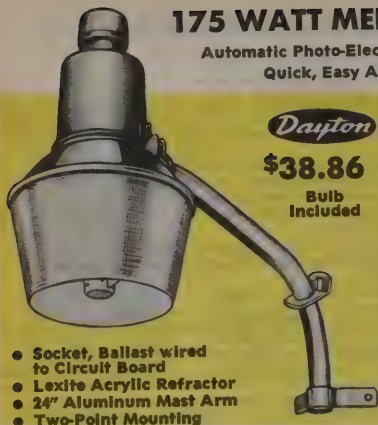
HIGH PRESSURE SODIUM BULBS

50	LU150/55V-BU	Golden-White	16,000	16,000	Base Up	2V452	56.00	38.08	33.60	6	4 oz.
00	LU400BU	Golden-White	50,000	20,000	Any	2V453	60.00	40.80	36.00	6	12 oz.

SEE WARRANTY INFORMATION ON PAGE 684

175 WATT MERCURY VAPOR KIT

Automatic Photo-Electric Control. 175 Watt Mercury Bulb Included.
Quick, Easy Assembly. Illuminates up to 3,000 Sq. Ft.



Dayton

\$38.86

Bulb
Included

- Socket, Ballast wired to Circuit Board
- Lexite Acrylic Refractor
- 24" Aluminum Mast Arm
- Two-Point Mounting

Provides abundant outdoor lighting. Ideal for use in industrial areas, marinas, municipal street lighting, farms, parks and parking lots, etc. Illuminates up to 3000 sq. ft. Plug-in type photo electric cell turns on light at dusk, off at dawn. High reactance 120V, 60 Hz ballast will start lamp to -20°F. Die cast aluminum locking-type head meets EEL-NEMA standards; spun aluminum reflector latches onto head, provides maximum light efficiency. Lexalite acrylic refractor with prismatic construction assures precise light distribution. Ballast wired to circuit board for easier servicing—no soldering of leads. Unit packed unassembled with 5 ft. length of #12 copper TW lead wire, two 3/8 x 3" lag screws and one 5/8 x 10" galvanized thru bolt supplied. Limited warranty; Fixture warranted for one year, parts and labor. See Limited Warranty Policy in Index. Easy-to-follow installation instructions. 120V, 60 Hz. Dayton brand. Shpg. wt. 15 lbs.

No. 2V379. Dayton 175 Watt Mercury Vapor Fixture Kit, with bulb. Retail \$64.95. Each.....\$38.86

175 & 400 WATT MERCURY VAPOR FIXTURES

Economical Westinghouse mercury vapor fixture for farms, rural areas, parking lots, boat docks, residential, and all areas requiring security lighting. Built-in photo electric cell automatically turns units on at dusk, off at dawn. High reactive type 120V ballast, normal power factor, will start bulbs to -20°F. Heavy duty mounting bracket. Die cast aluminum body, grey finish. Complete with assembly instructions, mounting bracket, 175 watt lamp, and hardware. Factory wired, ready for hook-up to electrical supply line.

No. 2V330, 175 Watt. Illuminates up to 3,000 sq. ft. at 25 ft. height—about three times more light than same size incandescent. Reflector latches directly to EEL-NEMA standard universal head; designed for 5" LCL mercury bulb. 18" arm.

No. 2V357, 400 Watt. Illuminates up to 7500 sq. ft. at 25 ft. height, with 2 1/2 times more light intensity. Sealed, tilted optical system directs light where needed, refractor design and heavy, break-resistant diamond prismatic glass lens for more even illumination. Cover hinges open from rear. 24" arm.

LIMITED WARRANTY

Bulbs for Nos. 2V330 and 2V357 are warranted against defects in material and workmanship under normal use (rental service excluded) for the rated hour-life, provided they have not been physically or electrically misused. See Limited Warranty Policy in Index.

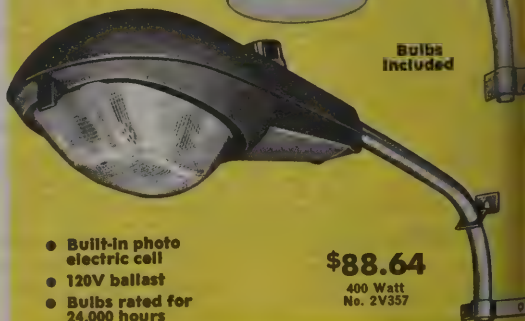
- Automatic Dusk-To-Dawn Outdoor Light
- Aluminum Body



\$38.56

175 Watt
No. 2V330

Bulbs
Included



\$88.64

400 Watt
No. 2V357

- Built-in photo electric cell
- 120V ballast
- Bulbs rated for 24,000 hours

Watts	Bulb Used	Sq. Ft. Illumination 25 ft. H.†	30 ft. H.†	Stock No.	—Including Bulb— Retail	Each	Shpg. Wt.
175	2V331	3000	—	2V330	\$66.05	\$38.56	16
400	2V358	7500	10000	2V357	147.60	88.64	39

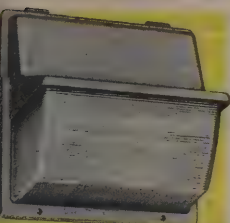
REPLACEMENT MERCURY VAPOR BULBS FOR FIXTURES ABOVE

Watts*	Manufacturer No.	Stk. No.	Retail	Each	Lots 6	Shpg. Wt.
175	H39KC-175/DX	2V331	\$12.60	\$8.57	\$7.56	8 ea.
400	H33GL-400DX	2V358	17.05	11.59	10.23	1

(†) Mounting height. (*) Not interchangeable—Order same wattage as present bulb.

Dayton MERCURY VAPOR WALL MOUNT SECURITY LIGHT

175W & 250W Models. Prismatic Glass Refractor. UL Listed—Suitable for Wet Locations



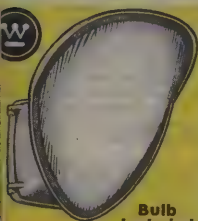
3-Year Limited Warranty
See Limited Warranty
Policy in Index

\$89.00 Dayton wall-mounted fixture for security lighting around buildings at low operating costs. For office buildings, factories, warehouses, schools, storage yards, over doorways, truck docks, etc. Provides light for personnel to move about safely after dark, deters vandalism. Rugged cast aluminum housing finished in metallic polyester enamel. Fully-gasketed for weatherproof installation. Prismatic glass refractor for even illumination over wide areas. Constant wattage high power factor ballast rated for continuous operation from -20°F to 131°F ambient temperatures. Front housing hinges from top for wiring and lamp access. Captive stainless steel screws for locking housing. Can be surface mounted on 3 or 4" outlet box or use $\frac{3}{4}$ " conduit entrance on top of housing. Threaded mounting hole with plug provided on side of unit will accept photo-electric control, No. 2E474, not incl. Control available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service. Approved for use in wet locations. Measures $15\frac{1}{4}$ H x $15\frac{1}{8}$ W x $7\frac{3}{4}$ " D. 120V, 60 Hz. UL listed, IBEW label. Dayton brand.

Wattage	Stock No.	Bulb Type Required (Manufacturer No.)	Line Current	Illumination at 5 ft. candles, 8 Ft. Mounting Height	Stock No.	—Less Bulb— Retail	Each	Shpg. Wt.
175	2V331	(H39KC-175/DX)	1.9	375 sq. ft.	2V441	\$148.33	\$89.00	24
250	2V449	(H37KC-250/DX)	2.6	575 sq. ft.	2V442	165.58	99.35	26

'WALLGUARD' VANDAL-RESISTANT MERCURY LIGHT

For General and Security Lighting. Dirt & Moisture-Proof. 175 Watt Polycarbonate Refractor. Shock Absorbing Socket



Bulb
Included

\$89.30 175 watt mercury vapor fixture is a specialized floodlight designed for wall mounting. Heavy duty construction makes it resistant to almost any form of vandalism or rough service. For general or security lighting in parking lots, around factories, warehouses, docks, barns, schools, etc. Polycarbonate refractor resists stones, rocks, bricks, BB's, etc. Ballast compartment, optical system fully gasketed against dirt or moisture. Shock-absorbing socket assembly helps maintain bulb life. Heavy gauge cast aluminum housing, hinged ballast cover with tamper-proof latch screw. For flush mounting on wall or outlet box. Completely assembled and wired with 175 watt mercury vapor bulb, high power factor ballast, instructions. 120V, 60 Hz. Westinghouse brand. Shpg. wt. 16 lbs.

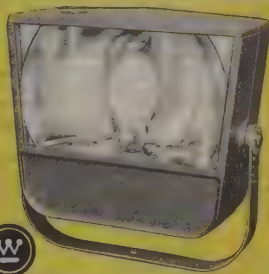
No. 2V359. (WG175-R-120-V.) Retail \$148.85. Each.....**\$89.30**

400 WATT MERCURY FLOODLIGHT

Die Cast Aluminum Housing. Double Contoured Reflector

145.32 Heavy duty luminaire mercury floodlight for general and building lighting or where wide beam light distribution is needed. Extra-heavy die cast aluminum housing. Heat and impact resistant clear, flat window. Completely gasketed and sealed against weather and dust. Double contoured aluminum reflector for lighting efficiency and control. Wide beam pattern— 150° horizontal x 122° vertical. Adjustable socket position varies beam spread. Vertical beam can be adjusted without tools. In-top mounted 3-prong twist-lock socket accepts Dayton photo-electric switch. See Index under Switches, Photo-electric. Last and socket prewired—terminal board easily accessible electrical connections. Uses 400 watt mercury vapor bulb, 2V358 not included. Silver-aluminum baked enamel pebble sh. 120V, 60 Hz. Westinghouse (394P857G28). Shpg. wt. 57 lbs.

2V383. Less bulb. Retail \$242.20. Each.....**\$145.32**



TUNGSTEN HALOGEN FLOODLIGHT

One-Piece Cast Aluminum Housing. 120V, Uses 500 Watt Bulb

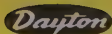


\$24.94 Durable, lightweight weatherproof tungsten halogen fixture for lighting parking lots, recreational areas, plazas, service facilities, etc. 1-piece pressure cast aluminum housing with deep fins for permanent rigidity and maximum heat dissipation. 1-piece molded silicone rubber gasket assures weatherproof seal between housing and lens cover. Specially-formed Alzak® sheet aluminum reflector, diffused finish. Heat and impact-resistant glass lens, uses 500 watt tungsten halogen bulb, No. 2V384, not included; See Index under Bulbs, Lamp. Beam spread 85° horizontal x 82.4° vertical. Adjustable, $\frac{1}{2}$ " NPT knuckle mount included. UL listed. 120V, 60 Hz. Westinghouse brand (394P861G08). Shpg. wt. 6 lbs.

No. 2V382. Less bulb. Retail \$41.55. Each.....**\$24.94**

REPLACEMENT BULBS AVAILABLE—SEE INDEX UNDER BULBS

SEE WARRANTY INFORMATION ON PAGE 684



ENERGY-SAVING HIGH INTENSITY LIGHTING

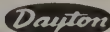
High Intensity Discharge (HID) lighting uses less energy than incandescent to provide the same light levels. The advantages of HID over incandescent are that it requires fewer fixtures and has reduced maintenance costs. The table at right compares purchasing/operating costs of the HID types: Mercury Vapor, Metal Halide, High Pressure Sodium—to incandescent.

All Dayton HID fixtures feature: cast aluminum housings; heat-dissipating fins for long ballast life; high power factor ballasts; safety yellow baked enamel housing; anodized aluminum clip-on reflectors (except on 175 and 250W fixtures); UL, IBEW labels.

PURCHASE & OPERATING COST COMPARISON

No. of fixtures needed to light a typical industrial area	500W Incandescent	400W Mercury (7V128)	400W Metal Halide (7V130)	400W Sodium (7V132)
	21	9	6	4
Fixture Cost	\$ 462.00	\$648.00	\$531.00	\$564.00
Energy at 3¢ per KWH*	\$1260.00	\$486.00	\$324.00	\$216.00
Estimated Bulb & Fixture Maintenance	79.00	21.00	53.00	37.00
Total Yearly Operating Costs	\$1339.00	\$507.00	\$377.00	\$253.00

(*) 16 hours per day, 5 days per week.



MERCURY VAPOR FIXTURES



A

\$46.75

175W Mercury Vapor
No. 2V431, Less Bulb
120V

\$72.06 B

400W Mercury Vapor
No. 7V128, Less Bulb

3-Year Limited Warranty
See Warranty Policy in Index



120-208-240-277V

175 & 250W Mercury Vapor (Fig. A). For mounting heights of 12-16 ft. Exposed ballast and armored capacitor for cool operation, long life. Easy-change reflectors have keyhole slots. ¾" hub on housing for conduit mounting. Removable cover plate for easy wiring access. Bluish-white light. Max. ambient temperature 104°F.

400W Mercury Vapor (Fig. B). For 14-20 ft. mounting where higher light levels are needed. Clip-on reflectors with self-cleaning, open top design. Constant wattage ballast. Removable splice box for pendant mounting on ¾" conduit. Maximum ambient temperature 131°F. Unit can be wired into 120-208-240-277V line.

1000W Mercury Vapor (Fig. B). Designed for high mounting applications of 20-40 ft. Clip-on reflectors; constant wattage ballast. Removable splice box for ¾" conduit. Units can be wired into 120-208-240-277V line.

MERCURY VAPOR FIXTURE APPLICATION & PERFORMANCE TABLE

Fig.	Application	Fixture Stk. No.	Bulb Watts	Volts 60 Hz	—Line Current—				Overall Bowl Height Diam.
					120	208	240	277	
A	Maintenance areas, benches, aisles, storerooms, low-ceiling loading docks	2V431	175	120	1.75	—	—	—	14 1/4" 13"
		2V432	250	120	2.50	—	—	—	14 1/4" 13"
B	Mfg., warehousing, high-ceiling loading docks, hangars, indoor sports facilities	7V128	400	120, 208,	3.90	2.20	1.95	1.70	21 3/4" 18"
		7V129	1000	120, 277	9.20	5.30	4.60	4.00	27 3/4" 21"

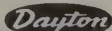
MERCURY VAPOR FIXTURES AND BULBS

FIXTURE, Less Bulb

Fig.	Watts	Stock No.	—Less Bulb— Retail	Each	Shpg. Wt.
A	175	2V431	\$77.92	\$46.75	9 1/4"
A	250	2V432	85.82	51.49	10
B	400	7V128	120.10	72.06	19
B	1000	7V129	174.00	104.40	34

BULB REQUIRED

Bulb Stock No.	Mfr. Model	Retail	Each	Carton Each	Bulbs Per Ctn.	Shpg. Wt.
2V331	H39KC-175/DX	\$12.60	\$8.57	\$7.56	6	8 oz.
2V449	H37KC-250DX	20.60	14.01	12.36	12	12 oz.
2V358	H33GL-400DX	17.05	11.59	10.23	6	1 lb.
2V450	H36GW-1000DX	34.65	23.56	20.79	6	1 1/4"



METAL HALIDE FIXTURE

\$88.48

400W Metal Halide
No. 7V130, Less Bulb
120-208-240-277V

3-Year Limited Warranty
See Limited Warranty
Policy in Index

Uses 1/3 Fewer Fixtures
Than Mercury Vapor to
Produce Equivalent Light

400W Metal Halide. For 18-30 ft. mounting heights in manufacturing, assembly, warehousing, high-ceiling loading docks, hangars and indoor sports facilities. Constant wattage ballast; clip-on reflectors. Splice box removes for pendant mounting on ¾" conduit. Uses 1/3 fewer fixtures than 400W mercury vapor to deliver equivalent light. Maximum ambient temperature 131°F. Unit can be wired into 120-208-240-277V line. Line current: 4.0 (120V); 2.3 (208V); 2.0 (240V); 1.75 (277V). Produces white color light. Overall height 21 3/4"; reflector diameter 18".

No. 7V130. Less bulb. Wt. 14 lbs. Retail \$147.47. Ea., \$88.48.
No. 2V451. 400W Metal Halide Bulb for No. 7V130 fixture. Shpg. wt. 1 lb. Retail \$34.50. Each, \$23.46; lots 6.....\$20.70

SEE OPPOSITE PAGE FOR FIXTURE ACCESSORIES & LIGHTING GUIDE



Dayton HIGH PRESSURE SODIUM FIXTURES

\$112.44

150W High Pressure Sodium
No. 7V131, Less Bulb

3-Year Limited Warranty
See Limited Warranty
Policy in Index

Uses 1/3 Fewer Fixtures
Than Metal Halide to
Produce Equivalent Light

150W High Pressure Sodium. For 10-18 ft. mounting heights. Solid state ignitors. High power factor ballast. Clip-on reflectors. Removable splice box for 3/4" conduit mounting. Golden-white color light. Maximum ambient temperature 131°F. Dual-voltage ballasts—can be wired into 120/277V line.

400W High Pressure Sodium. For 20-45 ft. mounting heights. Solid-state ignitors, high power factor ballast. Same reflector, mounting features as 150W unit. Maximum ambient temperature 131°F. Uses one-third fewer fixtures than 400W Metal Halide to produce equivalent light. Multiple-voltage (120-208-240-277V) ballasts.

HIGH PRESSURE SODIUM FIXTURE APPLICATION & PERFORMANCE TABLE

Application	Fixture Stk. No.	Bulb Watts	Volts, 80 Hz.	Line Current	Overall Height	Ref. Diam
g., warehousing, high-ceiling loading docks, garages, indoor sports facilities	7V131	150	120-277	1.65 — —	.72	21 3/4"
	7V132	400	120-208-240-277	4.20 2.40 2.10 1.80	27 3/4"	18"

HIGH PRESSURE SODIUM FIXTURES AND BULBS

FIXTURE, Less Bulb				BULB REQUIRED				
Stock No.	—Less Bulb— Retail	Each	Shpg. Wt.	Bulb Stock No.	Average Rated Life Hours	Retail	Each	Carton Each
50	7V131	\$187.40	\$112.44	30	2V452	16,000	\$56.00	\$38.08
00	7V132	271.20	141.06	32	2V453	20,000	60.00	40.80
								\$33.60
								36.00

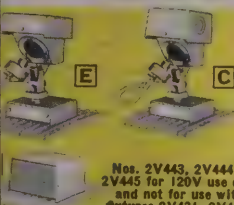
LIMITED WARRANTY: All bulbs listed on these pages are warranted for rated product hour-

life, if they have not been physically/electrically misused. See Limited Warranty Policy in Index.

WIRE GUARDS & MOUNTING ACCESSORIES

Heavy gauge aluminum wire guards protect fixture in areas where it is subject to moving objects. Easily attached to reflector. Access to bulb in center opening.

Dia.	Fixture Stk. No.	Guard Stk. No.	Retail	Each	Wt.
13"	2V431, 2V432	2V446	\$14.80	\$8.88	1
18"	7V128, 7V130, 7V131, 7V132	2V447	13.58	8.15	2
21"	7V129	2V448	16.08	9.65	2



Nos. 2V443, 2V444 & 2V445 for 120V use only and not for use with fixtures 2V431, 2V432.

[C] Thru-Wire Power Hook with Loop. For installing or removing fixture thru cord and plug assembly. Loop attaches to fixture mounting box. Hook assembly with receptacle installs on 3/4 to 1 1/4" conduit.

No. 2V444. Retail \$40.88. Each.....\$24.53

[D] Thru-Wire Outlet Box/Splice Compartment. For connection without separate outlet box. Replaces pendant box supplied with unit. For 3/4 to 1 1/4" conduit.

No. 2V443. Retail \$7.70. Each.....\$4.62

[E] Pendant Power Hook and Loop. Similar to power hook unit (C) above. Hook assembly, receptacle threaded for 3/4" conduit.

No. 2V445. Retail \$39.50. Each.....\$23.70

GUIDE TO DETERMINING NUMBER OF HID FIXTURES NEEDED

This guide is intended only for approximations—not to replace a precise lighting survey.

p 1: Find the area type. For example, a room L x 16 W x 12' H is a "Small" type because width (16') is less than two times the mounting height (12').

p 2: Determine the square footage of the area by multiplying length times width. Length (20') x Width (16') = 320 Sq. Ft.

the table below, under the Stock No. of the area selected, is the sq. ft. of lighting coverage it provides. If the fixture were No. 7V128, coverage would be 81 sq. ft.

p 4: Find the quantity of fixtures needed by dividing the room area by the square foot coverage of the fixture: 320 ÷ 81 = 3.95, or 4 fixtures

needed for 100 footcandle level in the 320 sq. ft. area.

If only 50 footcandles are needed for adequate coverage, divide number of fixtures by 2. See following page for table of light level recommendations for various tasks.

As a second example, an area 40 W x 40 L x 18' H is to be lit at 100 footcandles by No. 7V132 fixtures. It is a "Medium" type area because the width (40') is less than three times the height (18'). Length (40') x Width (40') = 1600 Sq. Ft.

Divide the 1600 sq. ft. room area by the 234 sq. ft. coverage of No. 7V132: 1600 ÷ 234 = 6.84, or 7 fixtures needed for a 100 footcandle level.

AREA TYPE	SQ. FT. FIXTURE COVERAGE FOR 100 FOOTCANDLES						
	2V431	2V432	7V128	7V129	7V130	7V131	7V132
Small (width is less than 2 x height)	27	41	81	172	118	61	193
Medium (width is less than 3 x height)	34	52	99	215	142	73	234
Large (width is less than 8 x height)	43	65	121	266	170	87	280

I.E.S. RECOMMENDED FOOTCANDLE LEVELS

Recommended Illuminating Engineering Society Minimum Light Levels Needed for Various Tasks.
For Information on Determining Quantity of Fixtures Needed, See Guides on Adjacent Pages

IES Recommended	Min. Foot-candle Level	IES Recommended	Min. Foot-candle Level	IES Recommended	Min. Foot-candle Level	IES Recommended	Min. Foot-candle Level
Airplane Manufacturing		Depots, Terminals, Stations		Library		Rubber Goods & Tire Manufacturing	
Assembly, inspection, hangar.....	100	Concourse.....	10	Ordinary reading, stacks.....	30	Plasticating, milling.....	100
Drilling, riveting, screw fastening.....	70	Platforms.....	20	Book repair & binding.....	50	Fabric cutting, hose looms, molding.....	50
Welding.....	50	Waiting, restrooms.....	30	Study & notes, cataloging, card files, check desk.....	70	Building, wrapping, curing.....	70
Assembly		Electrical Equipment Manufacturing		Machine Shops		Sheet Metal Works	
Rough easy seeing.....	30	Impregnating.....	50	Rough bench.....	50	General.....	50
Rough difficult seeing.....	50	Insulating: coil winding, testing.....	100	Medium bench, rough grinding, buffing.....	100	Tin plate inspection, galvanized, scribing.....	200
Medium.....	100	Foundries		Materials Handling		Stores	
Fine (a).....	500	Annealing furnaces.....	30	Loading, trucking.....	20	Circulation area, stockroom.....	30
Extra fine (a).....	1000	Cleaning.....	30	Picking stock, classifying.....	30	Merchandising, serviced.....	100
(a) Obtained with a combination of general lighting plus specialized supplementary lighting		Core making.....	100	Wrapping, packing, labeling.....	50	Merchandising—self service.....	200
Auditoriums		Inspection.....	500	Meat Packing		Testing	
Social activities.....	5	Medium.....	100	Slaughtering.....	30	General.....	50
Assembly only.....	15	Molding.....	100	Cleaning, canning.....	100	Textile Mills	
Exhibitions.....	30	Pouring, sorting.....	50	Offices		Picking, carding, roving, spinning.....	50
Automobile Manufacturing		Garages—Motor Vehicles		Corridors, stairways.....	20	Beaming & slashing.....	150
Final assembly, finishing, inspecting.....	200	Storage.....	5	Reading, transcribing.....	70	Drawing.....	200
Body & chassis assembly.....	100	Traffic Lanes.....		Regular office work.....	100	Others.....	100
Body parts manufacturing.....	70	Parking garage.....	10	Accounting, auditing, tabulating, business machine operation, rough drafting.....	150	Silk & Synthetics	
Frame assembly.....	50	Service garage.....	20	Cartography, designing, detailed drafting.....	200	Soaking, tinting, conditioning.....	30
Banks		Entrances.....	50	Paint Shop		Winding, slashing, light thread.....	50
Lobby, general.....	50	Repair area.....	100	Spraying, rubbing, hand art, stencil.....	50	Same as above with dark thread.....	200
Writing areas.....	70	Glass Manufacturing		Fine hard painting & finishing.....	100	Others.....	100
Tellers' stations, posting & keypunch.....	150	Mix & furnace rooms, pressing & lehr, glass blowing machines.....	30	Paper Manufacturing		Tobacco Products	
Basketball		Grinding, cutting, silvering.....	50	Beaters, grinding.....	30	Drying, stripping, general.....	30
Regulation.....	50	Fine grinding, leveling, polishing.....	100	Finishing, cutting.....	50	Warehousing, Storage	
Recreation.....	30	Gymnasiums		Hand counting.....	70	Inactive.....	
Canning & Preserving		Assemblies.....	10	Paper machine reel, inspection.....	100	Active.....	
Cutting, pitting, final sorting, continuous belt canning, sink canning.....	100	General exercise & recreation.....	30	Rewinder.....	150	Rough bulky.....	100
General hand packing.....	50	Exhibitions, matches.....	50	Post Offices		Medium.....	20
Can unscramblers.....	70	Hockey, Ice		Lobby & tables.....	30	Fine.....	50
Labeling & cartoning.....	30	Professional.....	100-200	Mail sorting.....	100	Welding	
Clothing Manufacture		Amateur.....	50	Printing		General.....	50
Receiving, storing, shipping, winding, measuring.....	30	Recreation.....	20	Photo engraving, etching, blocking.....	50	Woodworking	
Pattern making, trimming.....	50	Iron & Steel Manufacturing		Color inspecting.....	200	Rough sawing & bench work.....	30
Shops, marking.....	100	Stock, hot top, checker cellar, calcining.....	10	Presses.....	70	Sizing, planing, gluing, sanding, veneering, medium quality bench work.....	50
Cutting, pressing (a).....	300	Building, slag pits, stripping yard.....	20	Proofreading.....	150	Fine bench work, fine sanding, finishing.....	100
Sewing, inspection (a).....	500	Control platforms, repairs, mixer building.....	30	Composing room.....	100		
(a) Obtained with a combination of general lighting plus specialized supplementary lighting		Rolling mills.....	30				
		Shearing.....	50				
		Tin plate.....	50				
		Motor room, machine room.....	30				
		Inspection.....	100				

COMPLETE LINE OF STEEL SHELVING & SHOP EQUIPMENT AVAILABLE
THROUGH YOUR LOCAL GRAINGER SALES OFFICE/WAREHOUSE

Grainger carries in stock steel shelving, service carts, tool stands, work benches and other shop equipment most often asked for. In addition, we can supply your needs for any other item in our comprehensive line of material handling equipment—tell us your requirements.

GUIDE FOR DETERMINING QUANTITY OF FLUORESCENT FIXTURES NEEDED

The fixture coverage figures below are averages for evenly spaced fixtures in rectangular rooms with light-colored walls, and will not apply exactly to any specific room. If exact light levels are required, consult a lighting engineer.

W TO USE: Step 1) Determine room area.

Step 2) Determine basic quantity of fixtures required, by dividing room area by coverage figure selected fixture, from table below. This basic quantity provides 100 footcandles (fc) light level when mounted at maximum fixture-to-work surface distance shown in table.

Step 3) Adjust basic quantity, if necessary.

See light level recommendations on facing page. Correct for footcandle level, if other than 100 fc, by multiplying by footcandle level required and dividing by 100.

Correct for fixture-to-work-surface distance if less than maximum shown in table. Multiply figure from step 3a by appropriate figure below.

Industrial Type		Commercial Type	
Fixture to Work	Multiplier	Fixture to Work	Multiplier
0 Feet	0.94	10 Feet	0.97
5	0.88	8	0.93
2 (min. ht)	0.84	7 (min. ht)	0.92

EXAMPLE: To light an 80 x 50 ft. storage area to 100 fc with No. 3V297, 110 watt, high-output strip type fixtures mounted 20 ft. from the work surface (which, in a storage area, is the floor):

Step 1) Determine room area:

80 (length) x 50 (width)=4000 sq. ft. area.

Step 2) Determine basic quantity of fixtures.

Coverage of No. 3V297 in 3,000 to 12,000 sq. ft. area, from Table 1: 62 sq. ft.

4000 (area) ÷ 62 sq. ft.=64.5 fixtures to provide 100 fc

Step 3) Adjust basic quantity, if necessary.

a. Correct for light level required (30 fc):

$$\frac{64.5 \times 30}{100} = 19.4 \text{ fixtures to provide 30 fc}$$

b. Correct for fixture-to-work-surface distance (20 ft; multiplier 0.94):

$$19.4 \times 0.94 = 18.2$$

18 fixtures will provide a light level of approximately 30 fc when mounted 20 ft. above the work surface.

UNSHIELDED (STRIP TYPE) FLUORESCENT FIXTURES										
Fixture to Work Surface: 25 Feet Maximum Room Size	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles									
	3V304	3V277, 3V300	3V280	3V281	3V305	3V279	3V329	3V287	3V297	3V264
0 to 3,000 sq. ft.	9	18	38	76	18	38	36	76	53	85
3,000 to 12,000 sq. ft.	11	23	45	90	23	45	46	90	62	106
Over 12,000 sq. ft.	15	31	62	124	31	64	62	128	87	139

Fixture to Work Surface: 25 Feet Maximum Room Size	PREMIUM INDUSTRIAL FLUORESCENT FIXTURES				
	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles				
	3V280	3V322	3V323	3V330	3V265
0 to 3,000 sq. ft.	21	21	47	61	94
3,000 to 12,000 sq. ft.	27	27	56	80	124
Over 12,000 sq. ft.	33	33	69	95	147

Fixture to Work Surface: 25 Feet Maximum Room Size	INDUSTRIAL FLUORESCENT FIXTURES							
	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles							
	3V332	3V335	3V331	3V333	3V336	3V334	3V338	3V339
0 to 3,000 sq. ft.	22	44	47	22	44	47	47	94
3,000 to 12,000 sq. ft.	27	54	56	27	54	56	56	112
Over 12,000 sq. ft.	35	70	69	35	70	69	73	146

Fixture to Work Surface: 12 Feet Maximum Room Size	COMMERCIAL WRAP-AROUND AND MODULAR FIXTURES				
	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles				
	3V291	3V292, 3V293	3V294	3V346	3V347
0 to 1,000 sq. ft.	28	51	91	24	51
1,000 to 4,000 sq. ft.	32	60	108	28	60
Over 4,000 sq. ft.	37	70	128	33	73

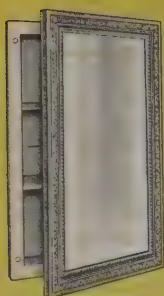
Fixture to Work Surface: 12 Feet Maximum Room Size	COMMERCIAL LOUVERED AND WOOD-FRAME FIXTURES				
	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles				
	3V282	3V283	3V284	3V285	2V338
0 to 1,000 sq. ft.	33	60	66	120	30
1,000 to 4,000 sq. ft.	38	69	76	138	35
Over 4,000 sq. ft.	42	78	84	156	41

Fixture to Work Surface: 12 Feet Maximum Room Size	FLANGE, GRID, SURFACE AND RECESS MOUNT TROFFER FIXTURES							
	Coverage: Sq. Ft. Area Lit By (Stock No.) Fixture at 100 Footcandles							
	3V325	3V326	3V341, 3V342	3V340	3V343	3V344	3V345	3V315
0 to 1,000 sq. ft.	24	48	30	51	38	79	85	28
1,000 to 4,000 sq. ft.	28	56	35	60	54	100	120	33
Over 4,000 sq. ft.	31	62	40	74	67	115	150	37

Fixture to Work Surface: 12 Feet Maximum Room Size	DECORATOR AND DUST/VAPOR RESISTANT FIXTURES		
	Coverage: Area Lit By (Stock No.) Fixture at 100 Footcandles		
	Decorator 2V299	Dust/Vapor 3V306	3V307
0 to 1,000 sq. ft.	25	24	50
1,000 to 4,000 sq. ft.	30	29	59
Over 4,000 sq. ft.	35	35	70

MIAMI-CAREY DECORATOR BATHROOM CABINETS

Steel Cabinet Body Recesses Between Studs
Available with Matching Decorator Sidelights
High Quality Plate Float Glass Mirrors



A SWING-DOOR RECTANGULAR

\$26.42



B SWING-DOOR OVAL STYLE

\$35.34



C SLIDING-DOOR RECTANGULAR

\$44.02

Miami-Carey built-in decorator cabinets are an outstanding value for new construction or remodeling. Designed and finished to complement all modern fixtures and vanities. Available with or without matching companion side-lights listed. Mirrors are quality plate float glass with electro-plated copper back. Framed in popular high-relief patterns. One-piece steel cabinet body recesses between studs. Supplied with two adjustable shelves and blade-drop. Swing-door models can be installed right or left hand.

A SWING-DOOR RECTANGULAR STYLE—Gold-embossed white finish. Mount Vernon mirror frame with scroll pattern. 21 H x 13 W, 1/4" plate rectangular mirror. Overall, 24 1/4 H x 16 1/4 W x 5 1/4" D. Requires rough-in opening, 20 H x 14 W x 3 1/2" D. Miami-Carey brand (CRP-315-20). Shpg. wt. 16 lbs.

No. 3V318. Less Decorator Side-Lights. Retail \$48.05. Each **\$26.42**

No. 7V126. With Decorator Side-Lights. Retail \$101.25. Each **\$55.68**

B SWING-DOOR OVAL STYLE—White and gold finish Queen Anne mirror frame with floral pattern. 24 H x 16 W, 1/8" plate oval mirror. Overall, 28 H x 20 W x 5 1/4" D. Requires rough-in opening 16 H x 12 W x 3 1/2" D. Miami-Carey brand (CRP-310-16). Shpg. wt. 22 lbs.

No. 3V316. Less Decorator Side-Lights. Retail \$64.25. Each **\$35.34**

No. 7V124. With Decorator Side-Lights. Retail \$117.45. Each **\$64.60**

C SLIDING-DOOR RECTANGULAR STYLE—Gold-embossed white finish. Mount Vernon mirror frame with scroll pattern. Two 18 H x 13 W, 1/4" plate sliding mirror doors with gold finish pulls. Overall, 21 1/2 H x 29 1/2 W x 5 1/4" D. Requires rough-in opening 19 1/2 H x 26 1/2 W x 4" D. Miami-Carey brand (CRP-2215). Shpg. wt. 30 lbs.

No. 3V317. Less Decorator Side-Lights. Retail \$80.05. Each **\$44.02**

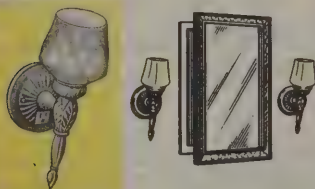
No. 7V125. With Decorator Side-Lights. Retail \$133.25. Each **\$73.28**

DECORATOR SIDE-LIGHT SET

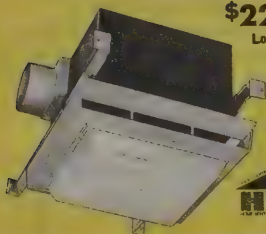
Matching Wall-Mounted Lights for Decorator Cabinets

\$29.26 Perfect match for above Miami-Carey decorator cabinets or any similar modern cabinets. Each light uses standard incandescent bulb to 75W, 115V. Gold-embossed white finish. 5" diameter opalescent glass diffuser globe. 13 1/2" H, 7" extension from wall. Switch knockout and 3-pin grounded receptacle on each light. Sold only in pairs. Install on standard conduit box. Miami-Carey brand (LD-315-PR). UL listed. Shpg. wt. 5 lbs.

No. 2V332. Decorator Lights. Retail \$53.20. Pair **\$29.26**



Fan/Light
\$22.70
 Lots 4



BATHROOM FAN & LIGHT UNIT

Quiet 50 CFM Fan. Takes up to 100W Light Bulb

Highly efficient, compact ventilator has dependable impeller design for quiet air movement. 50 CFM/2.5 sones. For bathrooms up to 45 sq. ft. Durable plastic grille is matte-white with unbreakable Lexan lens. Grille is 10 x 10 1/4", conceals fan interior. Housing measures 8 x 8 1/4" x 5 1/4" H; fits ceiling joists as small as 6". Convenient wiring junction and 4-point adjustable mounting brackets that span up to 24" for easy installation. Plug-in, permanently lubricated motor. Plastic back draft damper/duct connector prevents rattles, makes taping easier. Fits 4" round duct. HVI certified, UL listed. Shpg. wt. 7 lbs. Broan. (878)

No. 4C378. Retail \$36.30. Ea. **\$24.20**; lots 4 **\$22.70**

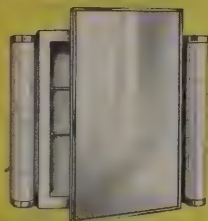
MIAMI-CAREY STANDARD BATHROOM CABINETS



A
**SLIDING-DOOR
RECESS-MOUNT**

\$45.25

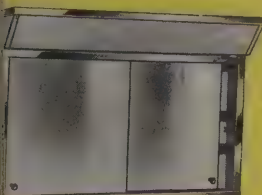
Tube Included



B
**SWING-DOOR
RECESS-MOUNT**

\$43.75

Tubes Included



C
**SLIDING-DOOR
SURFACE
MOUNT**

\$35.93

No. 3V238
Less Bulbs

**Thick Quality Plate Float Glass Mirrors
Recessed and Surface Mounted Types
Built-In Lighting On All Models Listed**

A SLIDING-DOOR RECESS-MOUNT STYLE — Smartly styled recess-mounting cabinet with top-mounted light fixture, 20 watt fluorescent tube included. Plate float glass mirror door on polystyrene tracks. Each door is 13 W x 18" H; 1/4" plate. Polished stainless steel frame, soft-tone finish on sides and interior. Convenience outlet and On-Off switch. Two adjustable rounded-edge glass shelves. Steel cabinet is 27 3/8" W x 22 1/4" H x 4 3/4" D, requires 26 3/8" W x 19 3/8" H x 4" wall opening. Completely wired, ready for installation. 115V, 60 Hz AC. UL listed. Miami-Carey brand (CRP-2010-L). Shpg. wt. 32 lbs.

No. 3V242. Retail \$82.25. Each **\$45.25**

B SWING-DOOR RECESS-MOUNT STYLE — Quality-built bathroom cabinet has 1/8" thick, 16 x 22" plate float glass mirror with bright polished stainless steel frame. Side-mounted light fixtures for full, even illumination. Two 15 watt fluorescent tubes included. On-Off switch and convenience outlet. Two rounded-edge glass shelves. Steel cabinet, soft-tone finish. Overall 22 W x 22 1/4" H x 6 1/8" D, requires 14 W x 18 H x 3 1/2" D rough-in opening. 115V, 60 Hz AC. UL listed. Miami-Carey brand (CRP-306A-L). Shpg. wt. 24 lbs.

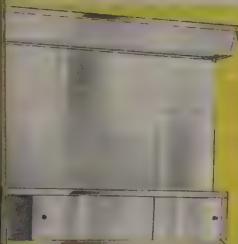
No. 3V240. Retail \$79.55. Each **\$43.75**

C SLIDING-DOOR SURFACE MOUNT STYLE — Deluxe medicine-utility cabinet that installs on wall surface. Heavy 3/16" sheet glass, 1/4" plate float glass on No. 3V267, mirror doors glide on polystyrene tracks, have copper-backed plating that is guaranteed by the manufacturer for five years. Polished stainless steel cabinet frame, soft-tone beige finished steel body. Two sturdy glass shelves. Ribbed plastic diffuser uses 60 watt or smaller bulbs, not included. On-Off switch and groundable outlet. 115V, 60 Hz. UL listed. Miami-Carey brand (CSH-76-24, CSH-78-28, CSP-81-36).

Each Door	Bulbs	Stock No.	Less Bulbs Retail	Each	Shpg. Wt.
12x18"	4	3V238	\$65.30	\$35.93	26
14x18"	4	3V239	70.30	38.68	30
18x18"	4	3V267	91.90	50.54	42

Overall; 24 1/2" W x 23 1/4" H x 8 5/8" D, 28 1/2" W x 23 1/4" H x 8 5/8" D and 36 1/2" W x 23 1/4" H x 8 5/8" D respectively.

MIAMI-CAREY DELUXE SURFACE-MTD. CABINET SET



24 to 48" Widths, 1/4" Plate Glass Mirror. Incandescent Lights

\$47.08

24" Wide

Provides convenience, adds custom touch to bath or powder room. Easily installed with hand tools; no recess needed. 24" high mirror is plate float glass, electroplated and copper-backed. Cosmetic cabinet is stainless steel outside, soft-tone baked-on enamel inside. Cosmetic cabinet with mirrored glass sliding doors measures 9 H, 4 3/4" D. Stainless steel trimmed light uses 4 incandescent bulbs, not included, 6 on No. 3V269, ribbed plastic diffuser, switch & outlet. 115V, 60 Hz. UL listed. Miami-Carey brand.

Overall Dimensions W	H	Mfr. No.	Stock No.	Less Bulbs Retail	Each	Shpg. Wt.
24 1/2"	37"	793	3V261	\$85.60	\$47.08	30
36 1/2"	37"	797	3V262	106.10	58.36	43
48 1/2"	37"	799	3V269	131.90	72.54	58

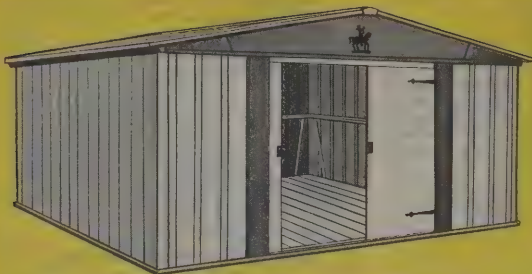
Quantity Motor Prices for OEM Production — Available from Grainger

Quantity prices are available to original equipment manufacturers from Grainger. Most of the 1,297 electric motor types listed in this MotorBook. Most standard

motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

HAMLET STEEL STORAGE BUILDINGS

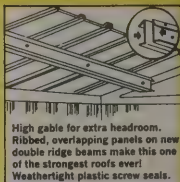
Easy to Set Up: Illustrated Step-By-Step Instructions, Numbered Parts. Overlapping Wall Panels



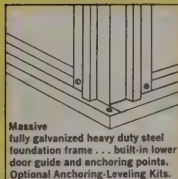
10 x 7', Less Floor

\$123.01

Lots 3



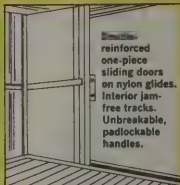
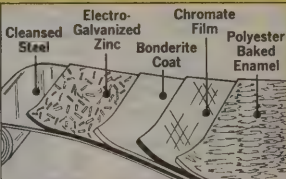
High gable for extra headroom. Ribbed, overlapping panels on new double ridge beams make this one of the strongest roofs ever! Weathertight plastic screw seals.



Massive fully galvanized heavy duty steel foundation frame... built-in lower door guide and anchoring points. Optional Anchoring-Leveling Kits.

Exclusive PERMA-PLATE® all-season protection

The most durable finish ever put on an all-steel Storage Building!



reinforced one-piece sliding doors on nylon glides. Interior jam-free tracks. Unbreakable, padlockable handles.

Shipped From Chicago Freight Collect. Order From Nearest Grainger Address For Fastest Service

Attractive gable-roof buildings for economical storage of outdoor equipment, toys, bikes, etc. Buildings have all of the outstanding construc-

tion features illustrated above plus decorative rustic hinges and attractive white enamel finish with leaf-green trim. Arrow brand.

Nominal* Size W x D	Approx. Building Dimensions at Roof W D H	Door Opening Width Ht.	Approx. Cubic Feet	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
10 x 7'	119½" 84½" 73½"	51" 61½"	355	HM107-6	3Z519	\$204.25	\$130.25	\$123.01	184
10 x 10	119½" 116" 73½"	51" 61½"	500	HM1010-6	3Z520	230.50	156.38	148.90	216
10 x 14	119½" 159" 73½"	51" 61½"	692	HM1014-6	7Z436	331.80	215.08	202.89	277
14 x 14	162½" 159" 83½"	68" 65½"	1058	HM1414-6	7Z508	425.50	313.01	293.12	418

(*) Approximate slab size required: One foot wider at sides and back, two feet wider at front for apron.

HOMASOTE FLOORS FOR STORAGE BUILDINGS

Homasote pressed board floor kits are designed to fit into foundation frame of building. Can be installed even after building is assembled. Floor provides a level surface to support heavy lawn

and garden equipment, bikes, fertilizer bags etc. Shipped from Chicago freight collect. Order from nearest Grainger address for fastest service. Other sizes NOT available. Arrow brand.

Assembled Size Wide Deep	For Building No.	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
10 Ft. 7 Ft.	3Z519	HF107	3Z318	\$54.85	\$42.43	\$40.20	70
10 10	3Z520	HF1010	3Z288	78.50	55.77	52.76	86

WALL HUNG 3-SHELF UNIT

Fits All Steel Buildings

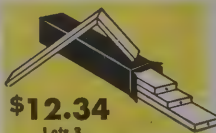
\$9.42 Lots 3



Attaches directly to wall. Avocado enamel finish. Easily assembled. Shelves are 33" W x 11" D. Shipped from Chicago freight collect. Order from nearest Grainger address for fastest service. Arrow brand (SS900-4). Shpg. wt. 10 lbs.

No. 2W018. Wall Hung 3-Shelf Unit. Retail \$14.85. Each \$10.38; lots 3 \$9.42

GROUND ANCHORING KIT



\$12.34

Lots 3

For securing storage buildings. Can be used in place of permanent base or floor kit by burying bent anchor in ground and attaching to frame. Made of galvanized steel. Eight anchors (2 per corner plus fasteners. Shipped from Chicago freight collect. Order from nearest Grainger address for fastest service. Arrow brand (AK8-4). Shpg. wt. 6½ lbs.

from Chicago freight collect. Order from nearest Grainger address for fastest service. Arrow brand (AK8-4). Shpg. wt. 6½ lbs. No. 2W017. Ret. \$20.00. Kit, \$13.38; lots 3, \$12.34

Dayton 16 HP GARDEN TRACTOR with HYDROSTATIC DRIVE



No. 3Z523, TRACTOR ONLY
\$1846.26 Freight
 Prepaid

CHECK THESE OPERATING EXTRAS!

Extra Power. Rugged 32.4 cubic inch, cast-iron engine by Briggs & Stratton.

Extra Comfort. Special synchro-balanced engine has dynamically balanced crankshaft to minimize vibration.

Extra Simplicity. Transaxle/hydrostatic transmission, with slip differential, requires no clutching or shifting—a single lever sets speeds up to 8 mph in forward or reverse.

Extra Efficiency. Transaxle/hydrostatic transmission provides excellent traction and drawbar pull. Dual range high/low speeds for precise matching of power to load.

Extra Safety. Electrical interlock system allows engine to start only when drive and power take-off are in neutral.

Extra Convenience. Tool lift lever actuates hydraulic cylinder to angle, raise or lower working attachments.

Synchro-balanced Briggs & Stratton 16 HP engine provides smooth, efficient operation and power-to-spare, whether equipped for mowing high grass or leveling dirt and gravel. Has 12V electric-key start, plus 45 amp battery, sealed beam dual headlights and safety interlock system. Transaxle/hydrostatic transmission has dual range high and low speeds, with slip differential—plus multiple speeds on throttle.

Power train is direct driven from engine to hydrostatic transmission with universal drive shaft. Power take-off for optional mower and tiller is achieved through universal drive shaft. Also has automotive rack and pinion type, 6-to-1 ratio steering; heavy gauge channel steel frame; and automotive disc brakes. Comes with 3-point lift hitch and extra drawbar. Gold finish. Dayton brand. Shpg. wt. 1006 lbs.

No. 3Z523, Dayton 16 HP Tractor. Retail \$2363.95.
 Each, Freight Prepaid **\$1846.26**

GENERAL SPECIFICATIONS	
Engine	16 HP, 4-cycle, 32.4 cubic inch, synchro-balanced, cast-iron block —with 12 volt electric starter, 45 amp battery and sealed beam dual headlights
Transmission	Hydrostatic/transaxle: dual range high and low speeds, with slip differential. Multiple speeds on throttle
Capacity	Gas tank, 4½ gallons. Crankcase, 4 pints oil
Flotation Tires	Front: 16 x 6.50". Rear: 27 x 9.50"
Dimensions	Overall width 41½", overall length 71½" Height: To steering wheel 41½", to seat 43½", to hood 37½" Wheelbase 49½". Centerline front tread 28", rear tread adjustable to 32 to 36"
Ground Clearance	Front axle 9¾", transmission 8¼", frame 13"
Wt.	1006 lbs., freight prepaid

Dayton power lawn and garden equipment shown in this section has been tested and approved by an authorized independent testing laboratory as complying with the lat-



ORDER EITHER OF THESE TRACTOR/ATTACHMENT COMBINATIONS AND SAVE UP TO \$111.24 OVER ORDERING SEPARATELY.

No. 7Z509. No. 3Z523 16 HP Tractor with No. 3Z524 50" Rotary Mower. Shpg. wt. 1175 lbs. Ret. \$2782.35. Complete, Freight Prepaid.....**\$2065.76**

No. 7Z510. No. 3Z523 16 HP Tractor with No. 3Z524 50" Rotary Mower; No. 3Z525 54" Angle Blade with 27x9.50" Tire Chains; and No. 3Z501 Wheel Weights. Shpg. wt. 1434 lbs. Retail \$3162.25. Complete, Freight Prepaid.....**\$2319.01**

est B71.1a safety specifications published by the American National Standards Institute (ANSI), and sponsored by the Outdoor Power Equipment Institute (OPEI).

Dayton 16 HP GARDEN TRACTOR with TRANSAXLE DRIVE

NEW



No. 3Z588, TRACTOR ONLY

\$1436.26 Freight
Prepaid

CONSTRUCTION FEATURES:

- Special synchro-balanced 16 HP engine has dynamically balanced crankshaft to minimize vibration.
- Has 12V electric key starter, 45 amp battery and sealed beam dual headlights.
- Heavy duty cast-iron transaxle differential/transmission has 4 speeds forward from 3/4 mph in 1st gear to 8 mph in 4th gear, plus neutral and reverse.
- Equipped with power take-off.

Has dependable, 16 HP, cast-iron block, synchro-balanced Briggs and Stratton engine with 12V electric key starter, 45 amp battery and sealed beam dual headlights. Heavy duty transaxle drive has 4 speeds forward from 3/4 mph in 1st gear to 8 mph in 4th gear, plus neutral and reverse. Power train is belt-driven from engine to transaxle. Power to optional rotary mower and tiller is transmitted by a high velocity fixed belt. Power take-off provides power to operate easy on/off earth-engaging attachments when used with 3-point hitch lift kit described on nearby page. Electrical interlock system safeguards operator by allowing engine to start only when drive and power take-off are in neutral. Comfortable high-back dual-spring supported seat has 5 adjustable positions and tilts up for easy access to the 3-gal. capacity gas tank. Engine enclosure panels are designed for easy engine access. Heavy gauge full-length steel frame; rugged, cast aluminum grille; heavy-gauge steel running boards and full-width steel rear fenders. Automotive disc brakes and turf-saver tread tires. Manual tool lift lever. Rack and pinion type 6-to-1 ratio steering for easy turning. Gold finish. Dayton brand. Shpg. wt. 882 lbs.

No. 3Z588, 16 HP Tractor. Retail \$1838.50. Each, Freight Prepaid.....\$1436.26

GENERAL SPECIFICATIONS

B & S Engine	16 HP, 4-cycle, 32.4 cubic inch, synchro-balanced, cast-iron block—with 12 volt electric starter, 45 amp battery and sealed beam dual headlights
Transmission	Heavy duty, cast-iron transaxle—a combination 4-speed transmission and automotive-type slip differential in one housing
Capacity	Gas tank, 3 gallons. Crankcase, 4 pints oil
Tires (Pneumatic)	Front: 18 x 6.50" Rear: 23.00 x 8.50"
Dimensions	Overall width 37 1/4", overall length 69 1/4" Height: To steering wheel 41 1/4", to seat 39 1/4", to hood 35" Wheelbase 48 1/2". Centerline front tread 32", rear tread adjustable to 28 1/2" or 31"
Ground Clearance	Front axle 9 1/2", transmission 7 1/4", frame 13 1/4" (front), 10 1/4" (rear)
Shpg. Wt.	882 lbs., freight prepaid

ORDER EITHER OF THESE TRACTOR/ATTACHMENT COMBINATIONS AND SAVE UP TO \$88.01 OVER ORDERING SEPARATELY.

No. 7Z536, No. 3Z588 16 HP Tractor with No. 3Z592 50" Rotary Mower. Shpg. wt. 1051 lbs. Retail \$2142.50. Complete, Freight Prepaid \$1672.71

No. 7Z535, No. 3Z588 16 HP Tractor with No. 3Z592 50" Rotary Mower, No. 3Z594 54" Angle Blade with 23x8.50" Tire Chains, and No. 3Z501 Wheel Weights. Shpg. wt. 1302 lbs. Retail \$2476.50. Complete, Freight Prepaid.....\$1934.74

Dayton 10 HP GARDEN TRACTOR with TRANSAXLE DRIVE

NEW

No. 3Z587, TRACTOR ONLY

\$1035.26 Freight
Prepaid



GENERAL SPECIFICATIONS

Engine	10 HP, 4-cycle, 24.36 cubic inch, synchro-balanced, aluminum block—with 12 volt electric starter, 45 amp battery and sealed beam dual headlights
Transmission	Heavy duty, cast-iron transaxle—a combination 4-speed transmission and automotive-type slip differential in one housing
Capacity	Gas tank, 8 quarts. Crankcase, 4 pints oil
Dimensions (Tires)	Front: 15 x 6" Rear: 23.00 x 8.50"
Dimensions	Overall width 37 1/4", overall length 63" Height: To steering wheel 36 1/2", to seat 35", to hood 34" Wheelbase 42". Centerline front tread 28 1/2", rear tread adjustable to 28 1/2" or 31"
Dimensions and Weight	Front axle 1 1/2", transmission 8 1/4", frame 1 1/2" (front), 8 1/4" (rear)
Weight	845 lbs., freight prepaid

ORDER EITHER OF THESE TRACTOR/ATTACHMENT COMBINATIONS AND SAVE UP TO \$64.88 OVER ORDERING SEPARATELY.

3Z533. No. 3Z587 10 HP Tractor with No. 3Z533 42" Rotary Mower. Shpg. wt. 991 lbs. Retail \$1573.00. Complete, Freight Prepaid **\$1228.91**

3Z534. No. 3Z587 10 HP Tractor with No. 3Z534 42" Rotary Mower, No. 3Z595 42" Angle Mower with 23x8.50" Tire Chains, and No. 3X501 Tire Weights. Shpg. wt. 1217 lbs. Retail \$1775. Complete, Freight Prepaid **\$1461.46**

CONSTRUCTION FEATURES:

- Special synchro-balanced 10 HP engine has dynamically balanced crankshaft to minimize vibration.
- Has 12V electric key starter, 45 amp battery and sealed beam dual headlights.
- Heavy duty cast-iron transaxle differential/transmission has 4 speeds forward from 3/4 mph in 1st gear to 6 mph in 4th gear, plus neutral and reverse.

Powered by a 10 HP, aluminum block, synchro-balanced Briggs and Stratton engine with 12V electric key starter, 45 amp battery and sealed beam dual headlights. Heavy duty transaxle cast-iron differential/transmission has 4 speeds forward from 3/4 mph in 1st gear to 6 mph in 4th gear, plus neutral and reverse. All 4 forward speeds are variable with throttle. Power train is belt-driven from engine to transaxle. Power from engine to optional rotary mower is transmitted by a high velocity fixed belt. Unitized, heavy gauge channel steel frame runs full length from rear axle housing to front pivot bar; tractor also includes full steel fenders and running boards. Adjustable tie rods for toe-in adjustment; pivoted front axle support with designated camber and caster. Automotive disc brakes, rack and pinion-type steering with 6-to-1 turning ratio, and extra large, turf-saver tread rear tires for sure, positive handling. Rugged, cast aluminum grille. Comfortable, spring supported seat. Conveniently-located, six-position tool lift lever. Gold finish. Dayton brand. Shpg. wt. 845 lbs.

No. 3Z587. 10 HP Tractor. Retail \$1325.25. Each, Freight Prepaid **\$1035.26**

INDIVIDUAL ATTACHMENTS FOR DAYTON TRACTORS AND RIDING MOWERS ARE LISTED ON NEXT TWO PAGES.

SEE WARRANTY INFORMATION ON PAGE 684

INDIVIDUAL ATTACHMENTS FOR DAYTON

42 and 50" CUT ROTARY MOWERS

For Use with Nos. 3Z523, 3Z587, 3Z588 Tractors



Full floating, 11 gauge baffled cutting deck with 3 staggered, austempered blades and power take-off from universal drive shaft (No. 3Z524) or belt drive (Nos. 3Z586, 3Z592). Has pre-lubricated and sealed ball and roller spindle assembly,

plus splined blade adapter and pulley. Wheel height adjusters on mower coupled with tool lift lever on tractor make contour cutting possible. Easy to install and remove. Dayton brand.

Size	Fits Tractor	Stock No.	Retail	Each	Shpg. Wt.
42"	3Z587	3Z586	\$321.50	\$251.13	146
50	3Z588	3Z592	400.50	312.72	169
50	3Z523	3Z524	419.50	305.31	169

THREE-REEL REAR GANG MOWER

For Use with All Tractors, Plus Nos. 3Z459, 3Z480 Riding Mowers



NEW

Cuts large areas quickly, with professional results. Each cutting reel is 21" wide; overall cutting width of 3-gang mower is 57". Reels have austempered steel blades and shielded ball bearings. Split rollers for

easy turning. Ball bearing wheels; twin-line tread tires. Attaches to rear of Dayton tractors and Nos. 3X459, 3Z480 riding mowers. Dayton brand. Shpg. wt. 231 lbs.

No. 3Z593. Retail \$363.95. Each.....\$285.28

11" TANDEM DISC HARROW

For Use with Nos. 3Z523, 3Z588 Tractors



Ideal for pulverizing, mulching and preparing seed beds. Unit is equipped with four gangs, each having four 11" heat treated steel discs. Gangs may be set at angles of 10°, 15°, 20° or moved horizontally. Heavy duty 5/16" carbon

steel angle frame is designed to hold concrete blocks for added ballast. Cast-iron disc hangers with grease fittings. No. 3Z588 tractor requires No. 3Z596 3-point hitch lift kit in order to use this attachment. Dayton brand. Shpg. wt. 182 lbs. No. 3Z558. Retail \$259.95. Each.....\$228.86

NEW

3-POINT HITCH LIFT KIT

For Use with No. 3Z588 Tractor

Fits rear of tractor to allow use of these attachments: No. 3Z558 11" tandem disc harrow, No. 2Z930 spring shank cultivator, No. 3Z597 42" rear-mounted tiller. Works with manual tool lift lever to raise rear-mounted attachment for transport or to control ground depth during use. Dayton brand. Shpg. wt. 24 lbs.

No. 3Z596. Retail \$66.00. Each.....\$51.61

SPRING SHANK CULTIVATOR

For Use with Nos. 3Z523, 3Z588 Tractors



Single row, adjustable steel frame unit with 8 heavy duty spring-steel shanks that can be positioned to meet row spacing. Heavy duty frame is 5/16" angle steel. Cultivator widths are controlled by adjusting frame struts to

frame angles. Gives high clearance for growing crops. No. 3Z588 tractor requires No. 3Z596 3-point hitch lift kit in order to use this attachment. Dayton brand. Shpg. wt. 65 lbs.

No. 2Z930. Retail \$131.40. Each.....\$101.31

33 and 42" REAR-MOUNTED TILLERS

For Use with Nos. 3Z523, 3Z588 Tractors



Tills a 33 or 42" wide swath, adjusts for narrower tilling. Maximum tilling depth, 10". Power take-off from universal drive shaft. Has ball bearing input shaft, needle bearing time shaft. Operates at 240 RPM with 3600 engine

RPM. Includes dirt shield and hinged rake plate. Dayton brand.

Size	Fits Tractor	Stock No.	Retail	Each	Shpg. Wt.
33"	3Z523	3Z560	\$489.95	\$423.73	216
42"	3Z588*	3Z597	547.00	427.41	285

(*) When equipped with No. 3Z596 3-point hitch lift kit

PAIR OF WHEEL WEIGHTS

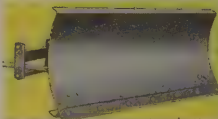
For Use with Nos. 3Z523, 3Z587, 3Z588 Tractors

Galvanized cast-iron construction. Weigh 50 lbs each. Bolt to rear wheels of Dayton tractor for added traction in soft dirt and snow. Dayton brand. Shpg. wt. 100 lbs.

No. 3Z501. Retail \$82.95. Each Pair.....\$76.40

42 and 54" ANGLE BLADES

For Use With Nos. 3Z523, 3Z587, 3Z588 Tractors
Pair of Tire Chains Included with Each Blade



Adjust to straight ahead, 25° left or right. Can be raised with hydraulic lift lever on No. 3Z523 tractor or manual tool lift lever on Nos. 3Z587, 3Z588 tractors. Also feature adjustable

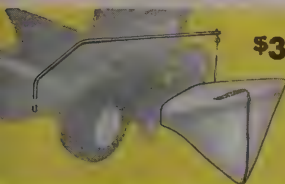
blade pitch, 3-position adjustable skid, and replaceable wear plate with automatic trim mechanism that permits blade to by-pass solid obstructions before springing back into position. Blades come with pair of tire chains. Dayton brand.

Blade Size	Fits Tractor	Size Chains Incl. (Pr.)	Stock No.	Retail	Each	Shpg. Wt.
42"	3Z587	23 x 8.50"	3Z595	\$209.00	\$163.31	126
54	3Z588	23 x 8.50	3Z594	252.50	187.13	151
54	3Z523	27 x 9.50	3Z525	277.95	202.04	159

TRACTORS AND RIDING LAWN MOWERS

DAYTON GRASS CATCHER

For Use with Nos. 3Z457, 3Z459, 3Z480 Riders



\$32.78

white, replaceable polyester bag resists rust, mildew and rot—has a capacity of over 100 lbs. Bag is supported at center by a steel rod which fits into trailer hitch. Reinforced steel end plate at chute opening. Attaches and detaches off easily. Shpg. wt. 18 lbs.

2Z691. Retail \$43.80. Each.....\$32.78

36" ANGLE BLADE

For Use with Nos. 3Z459 and 3Z480 Riders



Steel blade adjusts from straight to left or right. Clears snow, levels dirt and gravel. Easy to mount or remove. Dayton brand. Shpg. wt. 56 lbs.

3Z475. Retail \$94.60. Each.....\$72.73

TIRE CHAIN SETS

For Use with All Dayton Tractors

Provide extra traction when grading dirt or moving snow. Fit rear tires of tractors noted in table below. Dayton brand.

	Fits Tractor	Stock No.	Retail	Each (Pair)	Shpg. Wt.
36"	3Z587, 3Z588	2Z997	\$33.00	\$25.86	13
48"	3Z523	2Z919	34.95	30.38	17
60"	3Z526	2Z920	32.95	28.86	16

TIRE CHAIN SETS

For Use with Nos. 3Z459, 3Z480 Riders

Fit rear tires of riding mowers noted in table w. Dayton brand.

Size	Fits Mower	Stock No.	Retail	Each (Pair)	Shpg. Wt.
36.50"	3Z459	2Z757	\$32.95	\$30.17	15
48.50"	3Z480	2Z756	30.95	28.32	15

5 CUBIC FOOT DUMP TRAILER

For Use with All Tractors & Riding Mowers



All-steel body with hitch holds up to 10 cubic feet or 1000 lbs. of debris, dirt, stones, etc. Sturdy 18 gauge steel tray measures 38 x 48" with 12" high sides. Spring-loaded release for dumping. Pneumatic 4 x 8.00" wheels. Dayton brand. Shpg. wt. 122

3Z557. Retail \$134.95. Each.....\$120.06

31 & 38" DELUXE LAWN SWEEPERS

For Use with All Tractors and Riding Mowers



31" Swath

\$162.27

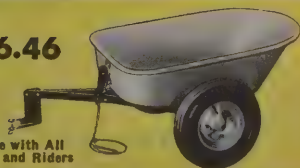
Picks up stones, grass, twigs, leaves, other loose debris. Waterproof brushes are staggered for smooth, efficient operation. Exclusive rear dump-

ing—just pull dump cord while seated on mower and hamper tips over to the rear. Single lever adjusts sweeping height without leaving seat. Shipped partially assembled. Lambert brand.

Swath	Bushel Capacity	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
31"	14	ST-411	3Z453	\$260.50	\$162.27	93
38"	19	ST-481	3Z391	301.50	188.22	100

5 1/2 CUBIC FOOT DUMP CART

\$56.46



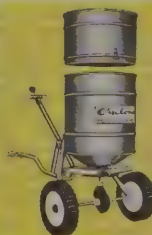
For Use with All Tractors and Riders

Self-dumping cart with hitch holds up to 5 1/2 cubic feet. One piece deep drawn seamless tray measures 38 L x 28 W x 11" D. Ball bearing wheels with 16 x 4" pneumatic tires. Load capacity 550 lbs. Automatic release dumping from seat. Radio brand (39). Shpg. wt. 54 lbs.

No. 3Z448. Retail \$79.50. Each.....\$56.46

WHIRL TYPE SPREADER

For Use with All Tractors and Riding Mowers



\$22.43

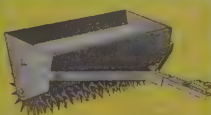
With Ext. Hopper

Whirls-on material in a tapered, feathered pattern — eliminates stripes caused by skips and overlaps. Spreads to rear of mower. Dial-controlled. Holds up to 60 lbs. with extension hopper (included) in place. Adj. hitch. Cyclone brand. (BP1). Shpg. wt. 20 lbs.

No. 2Z655. Retail \$33.95. Each.....\$22.43

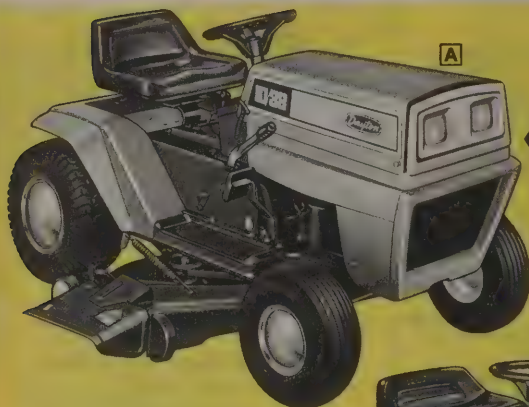
30" WIDE SPIKE AERATOR

For Use with All Tractors & Riding Mowers



Allows compacted lawns to breathe. Has 15 spiked 11" discs. Add weight in tray, increase spike penetration. Dayton brand. Wt. 55 lbs.

No. 3Z559. Retail \$92.95. Each.....\$80.77

Dayton**10 and 8 HP RIDING LAWN MOWERS**

**10 HP DELUXE,
38" TWIN-BLADE CUT,
12V ELECTRIC KEY
START (No. 3Z459)**

\$746.61 Freight
Prepaid



**8 HP, 34"
TWIN-BLADE CUT,
12V ELECTRIC KEY
START (No. 3Z480)**

\$614.61 Freight
Prepaid

ALL MODELS—Powered by a Briggs & Stratton 19.44 cubic inch, 4 cycle engine with 3-qt. gas tank. Separate foot pedals for brake and clutch. Rack and pinion steering with deep-dish steering wheel for easy maneuvering. Front pivot axle eliminates scalping, permits short turning radius. Other features common to all models: steel frame construction with integral running boards, hinged lift-up hood, disc brakes, all-weather padded seat, extra quiet muffler. Gold finish. Nos. 3Z459, 3Z480 and 3Z457 have full-floating cutting deck with belt driven, austempered cutting blades and single lever for height adjustment and blade disengagement.

A 10 HP Deluxe, 38" Cut, Electric-Start (No. 3Z459)—Features a powerful 10 HP synchro-balanced engine with dynamically-balanced crankshaft to minimize vibration and electric key-ignition start with 12V battery, alternator and sealed beam headlights. Has heavy duty transaxle drive—a combination 3-speed transmission (3 gears forward, neutral and reverse) and automotive-type differential in one housing. Unit also has full-floating, 38" cutting deck with twin belt-driven, austempered cutting blades, deluxe control panel, and chrome-plated steel hub caps. Fully pneumatic tires: 15 x 6.50" rib tread front, 18 x 8.50" turf-saver tread rear.

B 8 HP, 34" Cut, Electric-Start (No. 3Z480)—Has electric key ignition start with 12V battery

and sealed beam headlights, plus torque converter drive which automatically adjusts to changes in mowing loads. Full-floating 34" cutting deck with twin belt-driven, austempered blades. Fully pneumatic tires are 13 x 5.00" rib tread at front, 18 x 6.50" chevron tread at rear.

C 8 HP, 26" Cut, Electric-Start (No. 3Z590)—Has electric key-ignition start with 12V battery 5-speed transmission (5 speeds forward, neutral and reverse) with power-drive equalizer differential and sealed, cast-iron gear box. Rear bagging design allows flush trim mowing and easier handling in tight areas. Hinged-action 26" mower deck with single austempered blade permanently attached; adjusts from 2 1/4" to 3 3/4". Specially-designed grass catcher is included with riding mower, enables operator to dump clippings without leaving seat. Equipped with rear tow plate. Semi-pneumatic 11 x 4.00" rib tread front tires; fully-pneumatic 14.50 x 4.50" turf-saver tread rear tires.

D 8 HP, 30" Cut, Recoil Start (No. 3Z457)—Has recoil start engine and 3-speed (3 gears forward, neutral and reverse) in-line transmission with heavy-duty automotive-type differential. Full floating, 30" cutting deck with twin belt-driven austempered blades. Equipped with 11 x 4.00 semi-pneumatic rib tread front tires; 15 x 6.00 fully pneumatic turf-saver tread rear tires.

With 12V ELECTRIC KEY START or RECOIL START



NEW

**8 HP, 26" CUT,
REAR DISCHARGE,
12V ELECTRIC
KEY START
(No. 3Z590)**

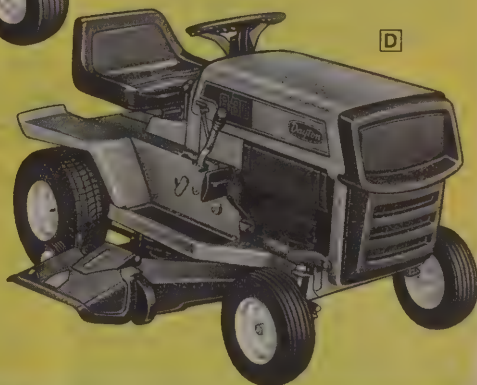
\$679.61 Freight
Prepaid

**REAR DISCHARGE GRASS
CATCHER INCLUDED**



**8 HP, 30" TWIN-
BLADE CUT, RECOIL
START (No. 3Z457)**

\$506.21 Freight
Prepaid



PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

HP	Start	Transmission	Differential	Cutting Width	Overall Height to Hood	Dimensions Width (Tractor)	Length	Stock No.	Retail	Each, Freight Prepaid	Shpg. Wt.
8	Elec.	Three-Speed Transaxle, plus Reverse	Trans-axle	38"	31½"	34½"	62"	3Z459	\$975.00	\$746.61	491
8	Elec.	Torque Converter* Drive plus Reverse	Auto-motive Type	34	28	32½	60	3Z480	726.00	614.61	434
8	Elec.	Five Speed Gear Box plus Reverse	Auto-motive Type	26	28	27†	86‡	3Z590	849.50	679.61	395
8	Recoil	Three Speed Gear Box plus Reverse	Auto-motive Type	30	27½	28½	54	3Z457	597.95	506.21	330

* Automatically adjusts to changes in mowing loads. (†) Width with mower. (‡) Length with grass catcher.

3-MATCHED POWER TOOLS

able power tools for most cutting, digging, finishing and fastening work listed in this MotorBook and stocked by at Grainger's. Dayton power



LARGE STOCK AT GRAINGER'S

tool construction features include double insulated Shock-Guard protection, burn-out protected motors, etc. For large selection, see Index under Tools, Power.

SEE WARRANTY INFORMATION ON PAGE 684

Dayton**18 to 22" PUSH-TYPE & SELF****Powered By Dependable Briggs & Stratton 3, 3½ or 4 HP, 4-Cycle Engine****No. 3Z462, 20" Cut
Economy Push-Type****\$89.81****No. 3Z463, 22" Cut
Standard Push-Type****\$97.83****No. 3Z461
18" Cut
Economy Push-Type****\$82.61**

Dayton quality built mowers are powered by a Briggs & Stratton 4 cycle engine. Other features common to all units include ultra-lift austempered steel cutting blade, cutting height adjustment and center chute discharge for efficient grass catching. All models meet OPEI safety standards, and incorporate these latest safety features: (1) Handle-mounted operating controls; (2) Grass chute extension deflector—deflects stones and other objects to ground; (3) Rear deflector skirt—prevents operator from getting feet under mower, also deflects objects downward. Gold deck.

18" Economy Push-Type, No. 3Z461—Has a 3 HP, recoil-start engine with 18" cutting blade. Convenient handle-mounted throttle control. Also features 14 ga. steel deck and painted ⅝" tubular steel T handle with grips. Four axle holes adjust cutting height from ¾ to 3". 6 x 1.50" diamond tread tires.

20" Economy Push-Type, No. 3Z462—Similar to No. 3Z461 above but with larger 20" cutting blade; five position height adjustment lever on each wheel for adjusting cutting height from ¾ to 3½"; chrome-plated ⅝" tubular steel folding handle; and 7 x 1.50" diamond tread tires.

22" Standard Push-Type, No. 3Z463—Equipped with 3½ HP, recoil-start engine; high impact plastic engine shroud; and 22" cutting blade. 14

ga. steel deck. Chrome-plated ⅝" tubular steel folding handle with throttle control located on decorative panel. Five position height adjustment lever on each wheel for adjusting cutting height from ¾ to 3½". 8 x 1.75" waffle tread tires with steel wheels and fortiflex bearings.

22" Deluxe Push-Type, No. 3Z464—Has a 4 HP engine with convenient vertical pull-up starting and oil dip stick. 22" cutting blade, super low-torque muffler. High impact plastic engine shroud with 14 ga. steel deck. Chrome-plated ⅝" tubular steel folding handle with throttle control located on decorative panel. Five position height adjustment lever on each wheel for adjusting cutting height from ¾ to 3½". 8 x 1.75" twin-lug tread tires with ball bearing steel wheels and hub caps.

22" Standard Self-Propelled, No. 3Z465—Powered by a 3½ HP engine with recoil starting. Front wheel drive consists of drive gear sprocket synchronized with special gear teeth on front wheels. Drive is controlled by raising or lowering handle. Also has extra-deep 14 ga. steel deck designed for front wheel drive, 22" cutting blade, and throttle lever located on chrome-plated T handle. Five position height adjustment lever on each wheel for adjusting cutting height from ¾ to 3½". Steel wheels have 8 x 1.75" gear tread tires at front, 8 x 1.75" rib tread tires at rear.

Model	HP	Width of Cut	Starting	Wheel Size	Height Adjustment	Stock No.	Retail	Each	Shop WL.
Economy Push-Type	3	18"	Recoil	6 x 1.50"	Movable Wheels	3Z461	\$95.90	\$82.61	49
	3	20	Recoil	7 x 1.50	4 Wheel Levers	3Z462	105.85	89.81	63
Standard Push-Type	3½	22	Recoil	8 x 1.75	4 Wheel Levers	3Z463	119.50	97.83	70
Deluxe Push-Type	4	22	Pull-Up	8 x 1.75	4 Wheel Levers	3Z464	131.50	107.09	75
Standard Self-Prop.	3½	22	Recoil	8 x 1.75	4 Wheel Levers	3Z465	151.25	130.66	86

OPPELLED ROTARY LAWN MOWERS

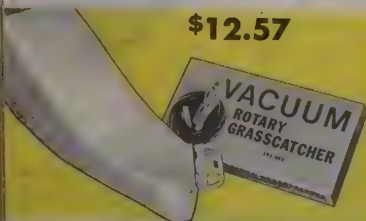
Oil and Vertical Pull Up Starting. Grass Chute and Rear Safety Deflectors



No. 3Z464, 22" Cut
Deluxe Push-Type
\$107.09



No. 3Z465, 22" Cut
Standard
Self-Propelled
\$130.66



\$12.57

DAYTON GRASS CATCHER

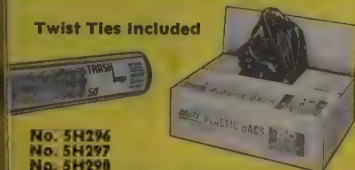
Large 27 lb. capacity bag is made of interwoven polyester fibers and meets ANSI nail test standards. Steel rod frame with reinforced steel buffer plate at chute opening. Non-corrosive zipper at rear. Self supporting. Can be attached and removed quickly, hands never have to touch deck or chute. Fits Dayton push-type and self-propelled rotary mowers, including high-wheel models. Does not fit rear discharge mowers. White bag. Shpg. wt. 6 lbs.

No. 2Z688. Dayton Grass Catcher. Retail \$16.85. Each **\$12.57**

PLASTIC TRASH CAN LINERS

1½, 2 and 3 Mil Thick. 30, 33 and 55 Gallon Sizes. Fully Gusseted for Extra Strength

Twist Ties Included



No. 5H296
No. 5H297
No. 5H298

No. 5X951

Heavy-duty plastic liners for industrial, commercial and residential use. Seams are heat-sealed to provide extra strength for maximum trash capacity. Black color. Twist ties included.

No. 5H298. Coml./Residential Bags. 1½ Mil, 30 gallon capacity. 50 Bags per roll. 30 W, 37" L.

No. 5H297. Lawn-Leaf Bags, 1½ Mil, 33 gallon capacity. 50 bags per roll. 33 W, 40" L.

No. 5H296. Commercial/Industrial Bags. 2 Mil, 33 gallon capacity. 100 bags per roll. 33 W, 40" L.

No. 5X951. Commercial/Industrial Bags for 55-gallon drums. 3 Mil, 55 gallon capacity. 50 bags per carton. 38 W, 60" L.

Thick., Mils	Stock No.	Retail	Each Roll	Each Ctn.	Lots 6 Rolls	Lots 6 Ctns.	No. Bags	Shpg. Wt.
1½	5H298	\$ 6.65	\$ 4.99	—	\$ 4.74	—	50	6
1½	5H297	8.00	6.00	—	5.70	—	50	7
2	5H296	20.72	15.54	—	14.76	—	100	19
3	5X951	25.00	—	\$19.01	—	\$18.05	50	23

SEE WARRANTY INFORMATION ON PAGE 684



A
No. 3Z477
20" Cut
Push-Type
\$142.36

**REAR DISCHARGE DESIGN
ELIMINATES BULKY SIDE-
MOUNTED GRASS CATCHER.
MOWER TRIMS FLUSH ON
BOTH SIDES.**



NEW
B
No. 3Z585
20" Cut
Self-Propelled
\$175.33



ALL MODELS—Feature true rear discharge design for flush cutting on both sides of the mower. Powered by 4-cycle Briggs & Stratton engine with vertical pull-up starting and oil dip stick. High impact plastic engine shroud. Five position height adjustment lever on each wheel for adjusting cutting height from $\frac{3}{4}$ to $3\frac{1}{2}$ ". Steel ball bearing wheels with hub caps. Tubular $\frac{1}{8}$ " chrome handle folds for storage. Supplied with tough polyester grass catcher. For operator safety, rear discharge chute has spring-loaded gate that won't open unless grass catcher is locked in place. Attractive gold deck.

A 20" Cut, Push-Type, No. 3Z477. Has $3\frac{1}{2}$ HP engine, 20" cutting blade and all-steel deck. Throttle is located on handle. 8x1.75" twin-line tread tires at front and rear.

B 20" Cut, Self-Propelled, No. 3Z585. Has $3\frac{1}{2}$ HP engine, 20" cutting blade and all-steel deck. Front wheel drive consists of drive gear sprocket synchronized with special gear tread on front wheels. Drive lever and throttle are located on handle. 8x1.75" tires are gear tread at front, twin-line tread at rear.

C 22" Cut, Self-Propelled, No. 3Z504. Has 4 HP engine, 22" cutting blade and cast aluminum deck—with chain sprocket rear axle drive. Drive lever and throttle are located on handle. 8x1.75" tires are twin-line tread at front, gear tread at rear.



C
No. 3Z504
22" Cut
Self-Propelled
\$215.61

Grass catcher that meets ANSI nail test standards included with each mower

Fig.	HP	Cutting Width	Cutting Height	Ball Bearing Wheel Size	Stock No.	Retail	Each	Shpg. Wt.
A	$3\frac{1}{2}$	20"	$\frac{3}{4}$ - $3\frac{1}{2}$ "	8 x 1.75"	3Z477	\$175.85	\$142.36	85
B	$3\frac{1}{2}$	20	$\frac{3}{4}$ - $3\frac{1}{2}$ "	8 x 1.75	3Z585	219.50	175.33	96
C	4	22	$\frac{3}{4}$ - $3\frac{1}{2}$ "	8 x 1.75	3Z504	283.25	215.61	96

Dayton 22 and 26" HIGHWHEEL ROTARY MOWERS



A
No. 3Z467
22" Cut
Push-Type
\$194.59



B
No. 3Z468
22" Cut
Self-Propelled
\$226.64



L MODELS—Versatile, professional-duty mowers designed for smooth, even cutting of grass or brush on normal or difficult terrain—dry or plain, smooth or rough, or on soft soil where small wheels often bog down. Powered by 5 HP, 4-cycle, Briggs and Stratton engine with recoil start. Units have all-steel deck and rear chute, reinforced steel at blade spindle. Single ultra-lift austempered cutting blade. Free clutch and throttle are mounted on control panel within easy reach. Chrome-plated $\frac{1}{8}$ " tubular steel handle has reinforcing panel. Ball-bearing wheels have 8 x 1.75" twin-line tires with steel hubs at front, 16 x 1.75" tires with steel hubs at rear. Gold deck.

22" Cut, Push-Type, No. 3Z467. Four bolt settings allow cutting height of each wheel to be adjusted from $\frac{3}{4}$ to 3".

SELF-PROPELLED MODELS—Rear wheel drive consists of drive pinions synchronized with speed gear tread on rear wheels. Drive engagement is mounted on handle. Gear tread tires provide maximum traction under wet conditions or dry, sandy soil.

22" Cut, Self-Propelled, No. 3Z468. Four bolt settings allow cutting height of each wheel to be adjusted from $\frac{3}{4}$ to 3".

26" Cut, Self-Propelled, No. 3Z589. Single-lever, nine-position, panel-mounted cutting height control adjusts hinged cutting deck from 1 to 4". Cutting deck has anti-scalp plate on front and spindle assembly.



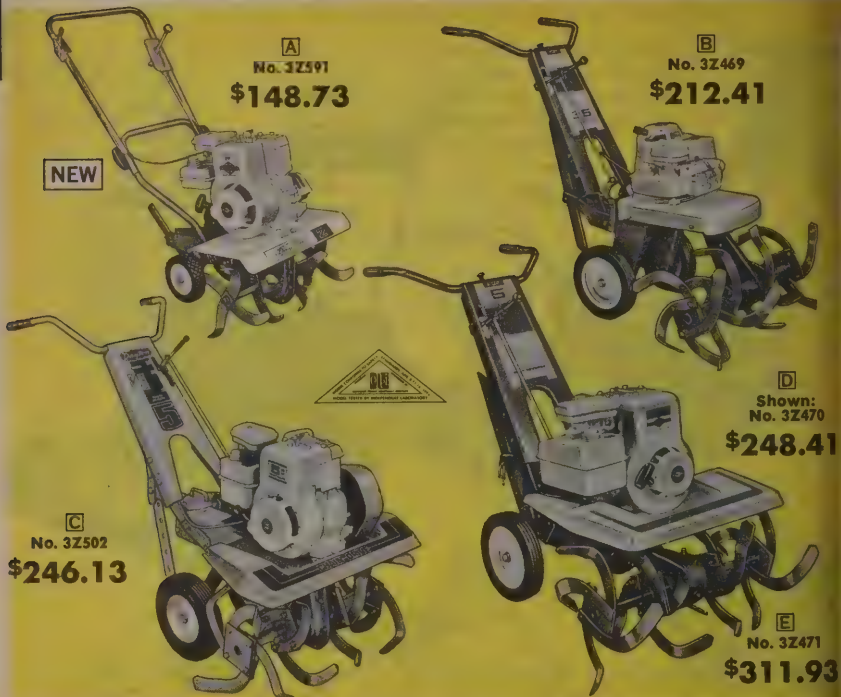
NEW
C
No. 3Z589
26" Cut
Self-Propelled
\$276.09

No. 2Z688 GRASS CATCHER
(Fits all models).....**\$12.57**

HP	Cutting Width	Cutting Height	Ball Bearing Front	Wheels Back	Stock No.	Retail	Each	Shpg. Wt.
5	22"	$\frac{3}{4}$ to 3"	8x1.75"	16x1.75"	3Z467	\$238.25	\$194.59	130
5	22"	$\frac{3}{4}$ to 3"	8x1.75"	16x1.75"	3Z468	273.85	226.64	157
5	26"	$\frac{3}{4}$ to 4"	8x1.75"	16x1.75"	3Z589	345.50	276.09	192

SEE WARRANTY INFORMATION ON PAGE 684

Dayton 2, 3½, 5 and 8 HP ROTARY TILLERS



[A] 2 HP, Compact, 3-Step Chain Drive, No. 3Z591. Has single speed forward plus neutral. 2 HP Briggs & Stratton engine with recoil start. 3-step chain reduction drive for maximum HP efficiency. Tilling width 18", depth to 5". 10" dia. spring steel tines. 6" plastic wheels with diamond tread tires. ¾" dia. folding chrome handle. Full-width tine shield. Throttle, clutch controls on handle. Adjustable, heat-treated depth bar.

TILLERS [B], [C], [D] and [E]. Equipped with 4-cycle Briggs & Stratton engine with recoil start. Tilling width 28", depth to 8". Adjustable heat-treated rear depth bar swivels right or left as tiller maneuvers for stability. All 16 tines are forged, heat-treated and self-sharpening. Steel wheels have reinforced hubs; tires are semi-pneumatic. Automatic belt stretch take up. Pre-assembled 1" dia. steel tubing handle adjusts up and down. Heavy duty control rod and lever. Gold finish.

[B] 3½ HP, Vertical Shaft Drive, No. 3Z469. Has single forward speed, plus neutral and reverse. Extra heavy gear case with adjustable, tapered roller bearings. Clutch lever on control panel, throttle on engine. Tines are 12" dia. and of beaver-type design. 9 x 1.75" rib tread tires.

[C] 5 HP, 3-Step Chain Drive, No. 3Z502. Has single forward speed, plus neutral and reverse. Power is transmitted directly to a 3-step chain drive to produce 2 to 3 times the digging (tilling) power of a gear box tiller of equivalent HP. Stamped steel gear case, heavy duty tine shaft. Throttle and Forward-Neutral-Reverse lever are located on control panel. Tines are 14" diameter and of bolo-type design. Heavy duty dirt shield. 10 x 2.75" rib tread tires. Wheels adjust up or down for tilling in all types of soil.

[D] 5 HP, Horizontal Shaft Drive, No. 3Z470. Has single forward speed plus neutral and reverse. Extra heavy gear case with 4 tapered roller bearings. Throttle and clutch controls are located on control panel. Bolo-type, 14" diameter tines. Heavy gauge dirt shield. 10 x 1.75" rib tread tires, adjustable wheels.

[E] 8 HP, Horizontal Shaft Drive, No. 3Z471. Has two forward speeds, plus neutral and reverse. Extra heavy duty gear case with heavy duty bearings and tine shaft. Throttle and clutch on control panel. Slasher-type 14" diameter tines. Heavy gauge dirt shield. 10 x 2.75" tractor tread tires, adjustable wheels.

Fig.	HP	Drive	Number Speeds* Forward Reverse	Tilling Width	Tines No. Dia.	Wheel Size	Stock No.	Retail	Each	Shpg. Wt.
A	2	3-Step Chain	One —	18"	16 10"	6 x 1.75"	3Z591	\$185.95	\$148.73	71
B	3½	Vertical Shaft	One One	26 16	12 9 x 1.75		3Z469	287.95	212.41	148
C	5	3-Step Chain	One One	26 16	14 10 x 2.75		3Z502	328.50	246.13	181
D	5	Hor. Shaft	One One	26 16	14 10 x 1.75		3Z470	357.25	248.41	189
E	8	Hor. Shaft	Two One	26 16	14 10 x 2.75		3Z471	388.95	311.93	226

(* All models also have neutral control.)

6 HP SELF-PROPELLED VAC

**Picks Up Debris from Lawns & Paved Surfaces
Eliminates Time Consuming Raking, Sweeping**

Direct drive, vertical impeller is driven by a 6 HP Briggs & Stratton 4-cycle engine with coil start. 26" wide suction hood extends beyond front wheels for close-up vacuuming—optional 4" diameter x 10 ft. hose attachment (No. 22774) also available. Ten-position height adjustment lever on handle adjusts suction off from 0 to 5". Drive engagement lever also on handle. Semi-pneumatic tires are 8 x 1.75" front, 10 x 2.75" at rear. Mesh-type 26 x 28 x 4-bushel discharge bag with heavy duty cover. Overall dimensions 37 H x 28 W x 25" L. Old finish. Dayton brand. Shpg. wt. 156 lbs.

No. 32479. Dayton 6 HP Self-Propelled Vacuum. Retail \$423.25. Each.....\$314.65



Vacuum also removes excess water from patios, driveways, etc. with discharge chute & bag removed

Dayton

\$314.65



4" DIA. HOSE for No. 32479

Sturdy 4" dia. x 10 ft. long flexible hose for hard-to-reach areas. Shpg. wt. 9½ lbs.

No. 22774. Hose Attachment. Retail \$44.60. Each.....\$33.36

5 HP SHREDDER/BAGGER

Grinds Up Leaves and Twigs with Triple Pulverizing Action. Eliminates Burning and Extensive Bagging for Pick Up

Powerful 5 HP Tecumseh engine with recoil start and 1" crankshaft operates exclusive 3-stage cutting/pulverizing action to break up and shred leaves, twigs and debris for compact disposal or compost. Three-stage action consists of 1st stage—flat 2 x 7½" austempered reversible shredding blade. 2nd stage—9 austempered x 3" free-floating, double reversible flail knives. 3rd stage—4 austempered V-shaped, 5½" double cutting fingers. Unit is equipped with a 2½ x 5" chipper chute (behind mesh bag illustration) for large branches up to 2" diameter, 19¼ x 19¼" vertical hopper, 22" wide chute with suction feed, and large capacity mesh bag. Also takes No. 5H297 plastic bag, listed elsewhere in this section, for direct bagging. Other features include 7½ x 8" vacuum intake, 13 gauge impeller-type cutting housing with dynamically balanced ¾" steel flail or, and 10 x 1.75" steel wheels with oilite bearings. Dayton brand. Shpg. wt. 124 lbs.

No. 32503. Retail \$286.00. Each.....\$208.36

Dropchute has 22" opening for easy rake feeding at ground level

Dayton

\$208.36



2 HP EDGER & TRIMMER

Gas 2 HP B & S Gas Engine with Recoil Start

Versatile edger/trimmer for giving lawns a manicured look. Blade and guard adjust for edging or trimming. Front wheel is adjustable up or down, and sideways to any of seven positions for varying curb heights. Loop handle prevents snagging on bushes, trees, etc. Dayton brand. Shpg. wt. 52 lbs.

SPECIFICATIONS

Engine: 2 HP Briggs & Stratton; recoil start; 35 Cubic Inch Displacement

Blade Diameter: 9" • Max. Edging Depth: ¾"

Wheels: Three rubber tires with steel hubs and ball bearings; 7" at front, 8" at rear.

Controls: Throttle and blade engagement lever; decorative handle control panel

Adjustments: Blade and guard adjust to 7 cutting angles. Front wheel adjusts up or down and/or sideways to any of 7 positions for varying curb heights and slopes

No. 32478. Retail \$137.25. Each.....\$102.66

EDGES along raised or sloped curbs by adjusting height of front wheel up, down or sideways.

TRIMS up to foundations and fence posts, under fences, etc. Also trims sloped lawns by angling blade and guard.



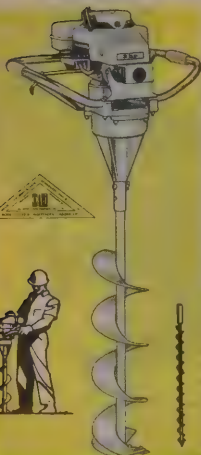
Dayton

\$102.66



ONE MAN POST HOLE DIGGER & EARTH AUGERS

3 HP Tecumseh Gas Engine, Recoil Start. Heavy-Duty Power Drive



Dayton

\$141.86

Less Auger

Engineered for heavy-duty, one-man operation in earth or ice. A must for farmers, contractors, sign installers, etc. 10-to-1 ratio gear train reduces auger speed to 360 RPM for maximum torque and earth removal. 3 HP, 2-cycle, Tecumseh gas engine with all parts within 360° handle provides greater operator safety. Recoil start. Special choke assures reliable cold-weather operation. Enclosed spark plug. Spring controlled thumb throttle. Diaphragm carburetor permits operation at any angle as long as gas tank is above carburetor. Fairbanks Morse, heavy-duty centrifugal clutch disengages at idling or when overloaded. Pinion shaft rides in double-shielded permanently-lubricated ball bearing. Output gearing and shaft ride on 3 radial and 2 thrust bearings. Includes chrome-vanadium torsion spring drive which absorbs shock and protects gear train. Sealed, oil-bath type gear box. Dayton brand. Shpg. wt. 37 lbs.

No. 22014. Dayton One Man Post Hole Digger for Augers, less auger. Retail \$194.25. Each.....**\$141.86**

1½ to 9" DIA. EARTH AUGERS FOR 22014

Description	Length	Stock No.	Retail	Each	Shpg. Wt.
1½" Dia. Auger	30"	22015	\$21.95	\$15.92	4½
3" Dia. Auger	30	22016	24.70	17.95	5
4½" Dia. Auger	30	22017	27.10	23.11	8
6" Dia. Auger	30	22018	39.00	25.07	11
9" Dia. Auger	30	22019	38.25	25.72	15
Auger Extension	15	22020	12.80	8.37	4

ICE CUTTING BLADES FOR 22014

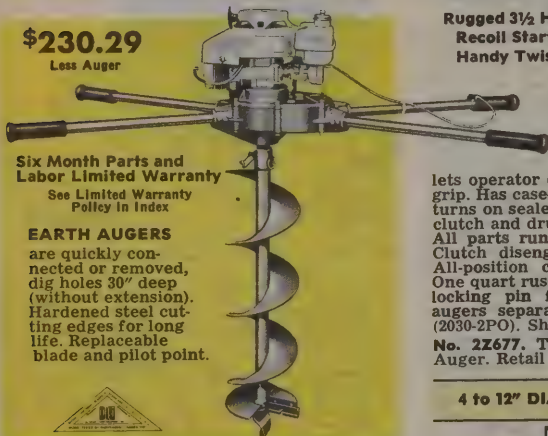
6" Dia. Ice Blade	30"	22021	\$17.20	\$11.30	3 os.
9" Dia. Ice Blade	30	22022	22.00	12.78	6 os.

EARTH AUGERS are easily connected and interchanged for rapid earth removal. Replaceable tool steel cutting edge (except 1½" size). 6 and 9" units are easily converted to ice augers (see blades at right).

TWO MAN POST HOLE DIGGER & EARTH AUGERS

\$230.29

Less Auger



Six Month Parts and Labor Limited Warranty

See Limited Warranty Policy in Index

EARTH AUGERS

are quickly connected or removed, dig holes 30" deep (without extension). Hardened steel cutting edges for long life. Replaceable blade and pilot point.

Rugged 3½ HP, 2 Cycle Tecumseh Gas Engine. Recoil Start. Double Gear Reduction Drive. Handy Twist Grip Throttle on Handle Grip.

Powerful 3½ HP, Tecumseh engine tackles practically any farm or commercial job. 36-to-1 gear ratio turns auger at approx. 140 RPM for efficient digging and maximum power on auger cutting edge. Twist grip throttle lets operator control engine speed from handle grip. Has case-hardened 1" dia. steel shaft which turns on sealed ball bearings. Gears, centrifugal clutch and drums are heat treated for long life. All parts run in permanently sealed oil bath. Clutch disengages when engine drops speed. All-position carburetor. Plastic handle grips. One quart rust-resistant fuel tank. Quick-change locking pin for fast auger changing (ord. augers separately). General Equipment brand (2030-2PO). Shpg. wt. 41 lbs.

No. 22677. Two Man Post Hole Digger, Less Auger. Retail \$255.65. Each.....**\$230.29**

4 to 12" DIA. EARTH AUGERS FOR 22677

Dia.	Length	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
4"	30"	2030-4E	22682	\$37.65	\$28.50	10
6"	30	2030-6E	22681	50.65	33.76	14
8"	30	2030-8E	22680	59.55	36.28	17
10"	30	2030-10E	22679	62.25	49.69	22
12"	30	2030-12E	22678	72.80	55.84	29

15" AUGER EXTENSION FOR 22677

Fits all augers at right. Extends digging depth to approximately 45". General Equipment brand (2030-15X). Shpg. wt. 2 lbs.

No. 22683. Retail \$15.50. Each.....**\$11.92**

YOU GET FACTORY-FRESH MOTORS FROM GRAINGER'S NEARBY STOCKS

Every motor listed in this MotorBook is Factory Fresh, of latest design, and engineered for performance and long life. Fact label on carton has



full specifications and identification of motor. Buy electric motors from Grainger with complete confidence. See Index under Motors for big line

3½ GALLON COMPRESSED AIR SPRAYERS

Two Stage Safety-Lock Top. Chapin Brand



\$23.80

Open Head

\$16.46

Funnel Top

Lightweight, efficient sprayers for applying weed killers, pesticides and other spraying solutions on lawns and gardens at home, on farms and industrial properties. All brass pump is designed to provide positive compression with fewer strokes. Two stage safety lock prevents pump from blowing out if released under pressure. Brass nozzle adjusts from fine to 30 ft. coarse spray, has lever-action shut off. Galvanized steel tank; oil-resistant rubber hose, gaskets and valves prevent corrosion. Pump length 12". Brass extension tube ¾ dia. x 20" L. Open head unit has an extra wide opening at top for mixing solution directly in tank and allowing thorough clean up. Furnished with plastic shoulder strap and clip to hold brass extension tube firmly to tank.

Type	Hose Lgth.	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Open Head	36"	181	22707	\$35.35	\$23.80	11
Funnel Top	30	141	22706	23.50	16.46	8½

PROPANE-POWERED BLITZ FOGGER



\$33.75

INSECTICIDE

A specially formulated blend of chemicals for killing flies, mosquitoes, gnats and other small flying insects in outdoor areas. Goes a long way — 10 oz. treats the average home yard. Shpg. wt. 8 lbs.
No. 22386. Retail \$6.45. Gal. Can \$4.61; lots 3.....\$4.38

Safe and simple to operate—simply fill quart tank with insecticide, light the propane and start fogging. Dense, dry fog penetrates bushes, under leaves to kill insects where they hide and breed. No residue remains to harm children, pets or wildlife. Lightweight, chrome-plated, all-metal construction with protective heat shield for cool operation. Extra-large ¼" copper heating coil converts insecticide to precisely-controlled fog. Requires no electrical outlet; powered by replaceable propane cartridge. Each cartridge operates fogger up to 5 hours. Supplied complete with propane cartridge, one quart of insecticide and holding stand. Caution: for outdoor use only. Village Blacksmith brand (720). Shpg. wt. 8 lbs.

No. 22622. Retail \$51.25. Each.....**\$33.75**

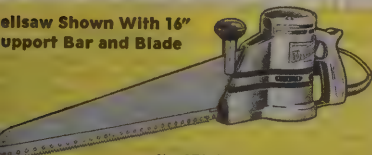
REPLACEMENT PROPANE CYLINDERS. Disposable 14.1 oz. cylinder for 22622 fogger. Turner brand (LP-175-5). Shpg. wt. 2 lbs.

No. 12690. Retail \$2.52. Each **\$1.58**; lots 6....**\$1.47**

WELLS BRAND PORTABLE ELECTRIC WELLSAW

Uses 8 or 16" Long Blades. Cuts on Both Strokes. 8000 1½" Cutting Strokes Per Minute

Wellsaw Shown With 16" Support Bar and Blade



No. 22546

\$97.89

Saw with 8" bar, plus 3 blades

A versatile power saw designed to do just about any sawing job that a hand saw, power saw or chain saw can handle. Powered by a specially designed 7 amp, 50/60 Hz, AC/DC motor. Has anti-friction ball and needle bearings, plus heat treated helical gears. Double-pole AC/DC trigger switch operates saw with generator current as well as house current. Rigid 8 or 16" support bar guides full length of blade. Die-cast housing. 10 ft., 3-cond. cord set. Wells brand.

REPLACEMENT WELLSAW BLADES

No.	Mfrs. Teeth Model	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
8	501104	22549	\$2.45	\$1.73	\$1.40	6 oz.
12	501108	22550	2.45	1.73	1.40	6 oz.
4	501247	22551	8.51	6.88	5.60	12 oz.
8	501116	22552	5.05	3.37	2.75	6 oz.

Description	Stock* No.	Retail	Each	Shpg. Wt.
Wellsaw with 8 & 16" support bars, 3-8" blades and 1-16" blade	72405	\$153.00	\$118.76	14
Wellsaw with 8" support bar & 3-8" blades	22546	123.00	97.89	12

(* Mfrs. models 400-8/501063 and 400-8 respectively.)

ADDITIONAL COPIES OF GRAINGER MOTORBOOK AVAILABLE

Are there other people in your organization who qualify for a Grainger MotorBook? If so, contact your local Grainger Sales Office/Warehouse for copies, or write to: W. W. Grainger, Inc., Dept. F13, 5959 W. Howard St., Chicago, Illinois 60648.

SEE WARRANTY INFORMATION ON PAGE 684

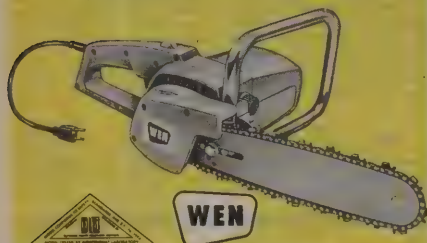
10 & 12" COMPACT ELECTRIC CHAIN SAWS

10" COMPACT ELECTRIC CHAIN SAW

11.0 Amp, 2 HP Motor Drives Chain at 5200 RPM No-Load Sprocket Speed. Bar Length 10"



\$46.39



A time and labor saving electric chain saw for the homeowner, building tradesman, landscaper and others—ideal for tree trimming, pruning, cutting fire wood, etc. Instant starting—just plug into any AC outlet and pull the trigger. Double insulated, unbreakable plastic housing protects against electrical shock. Convenient 2-cond. cord set. Heavy duty gear drive, anti-kickback clutch with hardened steel reversible sprocket for extra long life. Built-in 4 oz. capacity manual oiler located on main grip handle for one hand control of trigger and oiler. Non-slip grip handle and wrap-around auxiliary handle for perfect balance and control. Equipped with Oregon 10" bar, micro chisel chain and double ended wrench for bar and clutch adjustments. Cutter bar is reversible for extended life. Saw wt. 8 lbs. with bar and chain. Powered by a 115V, 60 Hz motor. UL and CSA listed. Wen brand (1100). Shpg. wt. 8½ lbs.

No. 2Z755. Retail \$62.15. Each **\$46.39**

12" COMPACT ELECTRIC CHAIN SAW

12.0 Amp. Motor. Safety Switch Prevents Accidental Starting. Bar Length 12"

\$79.93



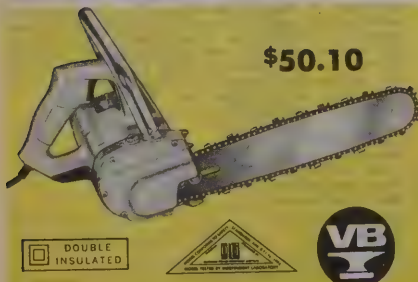
A lightweight, powerful electric chain saw for use by landscapers, tree-trimmers, heavy construction crews, carpenters—also for homeowners who want to trim trees, cut their own firewood, etc. Full 2 HP burnout-protected motor operates chain at 2500 ft. per minute with no load. Other features include built-in manual oiler, reversible cutting bar, built-in chain adjustment, bucking spike, and centrifugal clutch to prevent damage to motor or chain if binding occurs. 12 amp, 25/60 Hz, 115V motor and heavy duty AC switch with trigger guard. Chain pitch and gauge 3/8 x .050". Double-insulated fiberglass reinforced motor housing protects user against shock. Two-wire cord set. Dimensions: 19 L x 7 H x 11¼" W. Net wt. 9½ lbs. UL and CSA listed. Skil brand (1601). Shpg. wt. 11 lbs.

No. 2Z572. Skil Electric Chain Saw. Retail \$89.99. Each **\$79.93**

12" COMPACT ELECTRIC CHAIN SAW

10.5 Amp, 1.66 HP Motor. Completely Assembled—Just Plug In & Cut. Bar Length 12"

\$50.10



A lightweight saw for use by home owners, landscape firms, construction crews, etc. Powerful 10.5 amp, 1.66 HP, 115V, 60 Hz motor drives chain at 2200 surface feet per minute. Large 24" cutting capacity gives saw the versatility for handling big or little jobs. Ball and bronze bearings. Chrome-plated wrap-around handle. High impact plastic and die-cast aluminum housing. Heavy duty Oregon bar and cutting chain are factory installed. Oversize cutting teeth for fast, clean cuts without binding. Built-in bucking spikes grip wood for added user safety, better cutting leverage. Visible oil level check, automatic oiling at any sawing angle. Double insulated protection against electrical shock. 12" 2-cond. cord set. Overall dimensions: 19 L x 8 H x 9¼" W. Comes with convenient oil funnel. Net wt. 11 lbs. UL and CSA listed. Village Blacksmith brand (9112). Shpg. wt. 13 lbs.

No. 2Z772. Retail \$69.30. Each **\$50.10**

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

10, 12 & 14" MEDIUM DUTY GAS ENGINE CHAIN SAWS

Automatic Chain Oiling. Automatic Centrifugal Clutch. Quiet Tone Spark-Arresting Muffler



NEW

Dayton

A 10" Bar,
No. 4Z022
\$73.14



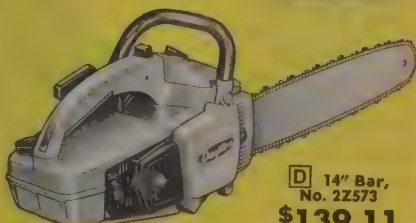
NEW

B 12" Bar,
No. 4Z023
\$83.04

**60-DAY
PARTS & LABOR
LIMITED WARRANTY**
See Limited Warranty
Policy in Index



C 12" Bar,
No. 2Z760
\$113.10



D 14" Bar,
No. 2Z573
\$139.11

Medium duty, easy-to-handle, direct drive chain saws with power and capacity for taking on tough cutting jobs. Ideally suited for forestry crews, farmers and home owners. Saws feature two cycle, one cylinder engines with automatic rewind starter and extra large pulley for easy starting. All-magnesium structural parts (no plastic used). Efficient, all-position motor allows saw to cut in any position, even

upside down. Other features include needle bearing construction, aluminum alloy piston and cylinder, automatic centrifugal clutch (releases at idle speed), moisture and dustproof high volt ignition, and air-cooled spark plug. Automatic chain oiler has manual back up chain oiling device for heavy cutting work. Equipped with high quality, hard-tipped bar and quiet tone spark-arresting muffler. Dayton brand.

Engine Specifications		Chain		Fuel		Oil		Net* Wt.	Stock No.	Retail	Each	Shpg. Wt.
Bar Size	Displ., Cu. In.	Bore and Stroke	Speed, RPM	Speed, RPM	Tank Cap.	Tank Cap.	Tank Cap.					
10"	2.0	1 1/16 x 1 1/4"	7500	2810	11 oz.	6 1/2 oz.	8 1/2	4Z022	\$99.95	\$73.14	10	
12	2.0	1 1/16 x 1 1/4"	7500	2810	11 oz.	6 1/2 oz.	8 1/2	4Z023	119.95	83.04	12	
12	1.9	1 1/16 x 1 1/4"	8500	3150	11 oz.	6 oz.	8	2Z760	154.95	113.10	11	
14	2.1	1 1/16 x 1 1/2"	8500	3150	11 oz.	6 oz.	9 1/2	2Z573	185.65	139.11	12	

REPLACEMENT SAW CHAINS TO FIT SAWS 4Z022, 4Z023 ABOVE

Saw No.	Length	Pitch	Stock No.	Retail	Each	Shpg. Wt.
4Z022	10"	3/8"	1R243	\$11.35	\$7.58	1
4Z023	12	3/8"	1R244	15.35	10.23	1

Total weight of saw, including power head, bar and chain.

PAKARD BRAND CHAIN SAW SHARPENER

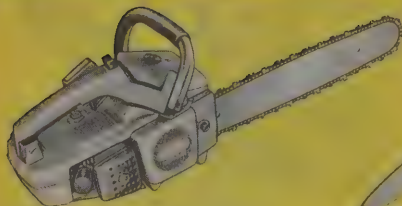


Easy to Use—No Need to Remove Chain. Zinc-Plated Steel

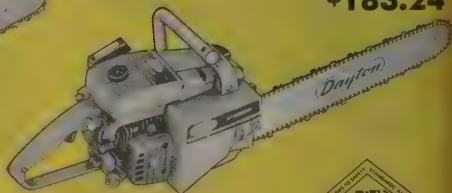
\$9.55 Sharpens saws quickly, in the field or in the shop, while chain is in place on blade. Simple and easy to use; regulates own height automatically, has positive angle adjustment, provides positive grip on tooth being filed. Self-centering guide for file holder prevents bushing wear. Positive go/no-go gauge included. File also provided. Made of heavy gauge steel, zinc plated to prevent rust. Non-corroding plastic knobs. Pakard brand.

For Chain Saw:		Size File Incl.	Dimensions W H D			Mfrs. Model	Stock No.		Lots 6		Shpg. Wt.
461, 2Z462, 2Z463	7/32"	4"	3"	13"	44	2Z244	\$13.95	\$9.95	\$9.55	1 1/2	
572, 2Z573, 2Z760,	5/32	4	3	13	250-G	2Z645	13.95	9.95	9.55	1 1/2	
970, 2Z971,											
022, 4Z023											

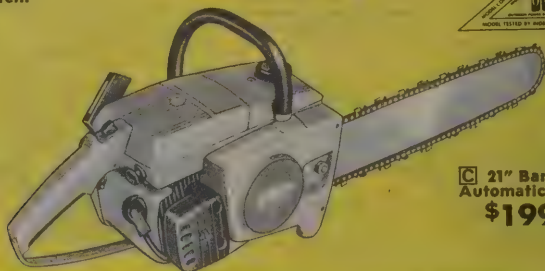
SEE WARRANTY INFORMATION ON PAGE 684

Dayton**16, 17 AND 21" HEAVY-DUTY DIRECT-****Lightweight, 2.3, 3.6, 4.0 & 4.5 Cubic Inch Engines.**

A 16" Bar, No. 2Z970
Anti-Vibration System
Automatic Oiling

\$157.06

B 17" Bar, No. 2Z461

\$183.24

C 21" Bar, No. 2Z971
Automatic Oiling

\$199.42

Dayton lightweight, direct-drive chain saws are powerful, fast cutting, and perfectly balanced to provide easy handling, professional results. Precision built engine and saw components are engineered, manufactured and assembled in the same plant to insure the finest workmanship, quality and performance. All units are regulated automatically by a speed-control diaphragm carburetor which makes it impossible to damage the engine by over-speeding—also keeps engine running in any position, even upside down. Engine runs cooler with less vibration and stress—reduces maintenance, lengthens engine life. Automatic centrifugal clutch and baffled, spark arresting muffler. Strong magnesium die-cast construction. Dayton brand.

A 16" Bar with anti-vibration system and automatic oiling, No. 2Z970. Cutting vibrations are reduced by vibration-dampening padded handle-bar, 4 shock absorbers and counter-balanced crankshaft. Vibrations are reduced up to 78% to let user work longer with less cutting fatigue and easier handling. Rugged 2.3 cubic inch engine lets user cut through an 8" log in less than 4 seconds. 100% needle and ball-bearing construction. Continuous lubrication is automatically pumped to the chain and bar while cutting; pushbutton allows extra oil to be pumped during rigorous cutting. Bar wrench and spark plug socket are included. Orange and black finish.

B 17" Bar, No. 2Z461. Compact and light in weight—yet powerful, accurate and dependable. Excellent tool for farmers, maintenance crews, home owners, sportsmen, resort-owners, and others to use for cutting firewood, fence posts, limbs and logs, removing trees and heavy brush, etc. Advanced construction features include 3.6 cubic inch engine and die-cast magnesium frame. Also has throttle trigger lock, choke, oiler pump button, ignition switch, and recoil starter. Orange and black finish. Furnished with bar wrench and spark plug socket.

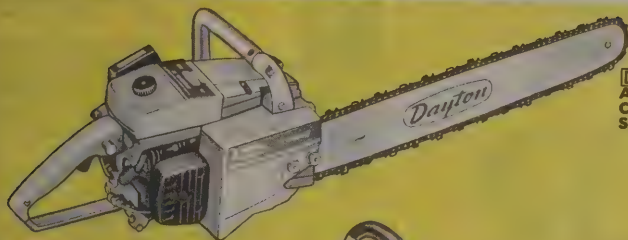
C 21" Bar with automatic oiling, No. 2Z971. Advanced design features of this saw assure professional results. 3.6 cubic inch engine includes speed-control diaphragm carburetor. Continuous lubrication is automatically pumped to the chain and bar while cutting; pushbutton allows extra oil to be pumped to assure adequate supply under the most severe cutting conditions. Includes quiet-tone spark-arresting muffler, carburetor that permits cutting in any position, pushbutton throttle lock for easy starting, rugged magnesium die-cast frame. Flywheel-type magneto is moistureproof and dustproof. Oversize pulley for easy starts. Bar wrench and spark plug socket are included. Orange and black finish.

D 21" Bar automatic oiling, No. 2Z462. Features 4.0 cubic inch engine, speed control carburetor, and compression by-pass starting. A professional saw designed to cut fast, with a minimum of effort. Dual oil system: Continuous lubrication is pumped to the bar and chain automatically while cutting. Pushbutton for extra lubrication during heavy-duty cutting. Compression by-pass starting reduces recoil starting effort. Orange and black finish. Bar wrench and spark plug socket included.

E 21" Bar with automatic oiling, pushbutton sharpening and roller nose bar, No. 2Z463. The ultimate in professional chain saw design. Rugged 4.5 cubic inch engine, with compression by-pass starting and efficient speed control carburetor. Exclusive pushbutton chain sharpening—sliding button back and forth hones cutters and depth gauges evenly while also dressing stone. Convenient sharpening feature means longer bar and chain life, less engine stress, easier work, and faster cutting. Continuous chain oiling plus button for extra oil. Comes complete with grease gun, file and guide, bar wrench, and spark plug socket. Orange and black finish.

DRIVE GAS-POWERED CHAIN SAWS

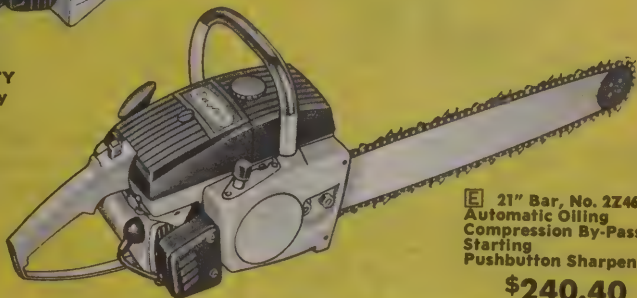
Speed Control Carburetor. Ball & Needle Bearings



D 21" Bar, No. 2Z462
Automatic Oiling
Compression By-Pass
Starting

\$223.47

DAYTON
ARTS AND LABOR
WARRANTY
Limited Warranty
Policy in Index



E 21" Bar, No. 2Z463
Automatic Oiling
Compression By-Pass
Pushbutton Sharpening

\$240.40

DAYTON CHAIN SAW SPECIFICATIONS AND PRICES

Bar & Chain	Engine Displ.	Bore	Stroke	Engine RPM	Chain Speed Ft. Per Min.	Fuel Cap.	Oil Cap.	Net* Wt.	Stock No.	Retail	Each	Shpg. Wt.
16"	2.3	1.437"	1.312"	6500	3000	11 oz.	6 oz.	9 1/2	2Z970	\$189.95	\$157.06	12
17"	3.6	1.788	1.437	6500	2750	16	5	15 1/2	2Z461	224.95	183.24	20
21"	3.6	1.788	1.437	6500	2850	18	9.3	13	2Z971	239.95	199.42	18
21"	4.0	1.890	1.437	6500	2850	26	5.3	16 1/2	2Z462	264.95	223.47	18
21"	4.5	2.005	1.437	6500	2750	27	9	16 1/2	2Z463	316.25	240.40	18

REPLACEMENT SAW CHAINS TO FIT SAWS ABOVE

Fits Saw No.	Length	Pitch	Stock No.	Retail	Each	Shpg. Wt.
2Z970	16"	3/8"	1R242	\$17.95	\$11.95	1
2Z461	17"	3/8	2Z478	25.55	14.31	1
2Z462, 2Z971	21"	3/8	2Z479	30.25	16.53	1
2Z463	21"	.404	2Z480	31.75	16.57	1

* Total weight of saw, including power head, bar and chain.

POWER LAWN and GARDEN EQUIPMENT BROCHURE

Gives full specifications on the complete Dayton line, including: Garden Tractors, Riding Lawn Mowers, Rotary Mowers and Tillers, Chain Saws, Outdoor Vacuum, Shredder-Bagger, Edger-Trimmer and Post Hole Digger.

Available from your local Grainger sales office/warehouse, or write to: W. W. Grainger, Inc., Dept. E4, 5959 W. Howard St., Chicago, Illinois 60648.

PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you phone Grainger's for the equipment or supplies you want to pick up. Our people can have your merchandise ready to go when your truck arrives.

SEE WARRANTY INFORMATION ON PAGE 684

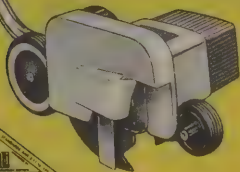


HEAVY DUTY EDGER/TRIMMER

Powered By 9.0 Amp, 1.33 HP, 115V AC Motor
Double Insulated Protection. Gear-Driven Blade

- Unit converts quickly from trimmer to edger by loosening knob and rotating motor housing.
- Unique front guide wheel holds edging guide firmly to walk.

 DOUBLE INSULATED



\$50.17

Powerful 9.0 amp, 1.33 HP, 115V AC, 60 Hz motor drives blade at 6000 RPM with no load—makes fast work of edging, trimming and trenching jobs. Has adjustable, hardened steel edging guide for selecting desired edging width. Single reduction gears. Overload clutch protects motor and gears. Trims a 9" swath, edges up to 1" deep and trenches at any angle. Double insulated for protection against electrical shock. 12" 2-cond. cord set. Net wt. 14 lbs. Village Blacksmith brand (9101). Shpg. wt. 18 lbs.

No. 2Z771. Heavy Duty Electric Edger and Trimmer. Retail \$77.50. Each.....\$50.17

WHEELBARROWS

Heavy Duty Contractor Grade in Two Designs



GENERAL PURPOSE

\$50.33

CONCRETE

\$55.73

Both units feature countersunk tray bolt heads; all-steel frame and leg supports with special undercarriage designed to provide added stability and lateral strength; no-slip noseguard; and 16 x 4" pneumatic tires, ball bearing wheels. General-purpose unit has 37½ L x 28 W x 10" D seamless tray, green enamel finish; concrete model has 38½ L x 25½ W x 13" D seamless tray, blue finish. Radio Steel brand.

Type	Heap Cap., cu. ft.	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Gen. Purp.	4½	35-1	32449	\$69.00	\$50.33	52
Concrete	6	37-1	32450	76.75	55.73	62

VISIT US — SEE LARGE STOCK AVAILABLE

CORDLESS GRASS CLIPPER

Operates On Two Nickel-Cadmium Batteries
90-Day Parts and Labor Limited Warranty



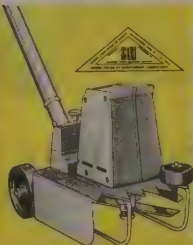
\$21.62

Including Batteries, Charger, Handle

Use as hand clipper or with extension handle for upright operation. Uses 2 nickel-cadmium batteries (incl.), can be recharged over 500 times. Operates approx. 50 min. between charges. Blade operates at 1200 cuts per min. Comes with power pack recharger and 43" aluminum extension handle. Harvest gold. Burgess brand (G381). Shpg. wt. 4 lbs. No. 2Z670. Clipper. Ret. \$29.99. Ea., \$21.62

CONVERTIBLE EDGER/TRIMMER

Trims 6" Wide, Rotates 90° for Edging
Gear Driven. 3 Amp, 4500 RPM Motor



\$35.97

Electric unit trims 6" wide path around trees, buildings, etc.—edges 1" deep along sidewalks and driveways. Geared power drive with spring-friction clutch to protect blade when obstacle is hit. Tempered spring steel 6" blade operates at 4500 RPM. Chrome-plated handle, die cast aluminum housing, adjustable support handle, On-Off switch. 3" dia. rubber wheels. 12" 3-cond. cord set. UL listed. Orange finish. Village Blacksmith brand (9400). Shpg. wt. 9 lbs.

No. 2Z536. Retail \$59.50. Each.....\$35.97

WHIRL-TYPE SPREADER

Walk Behind Model. Max. Spreading Width 4 Ft.



\$21.33

- Spreads Material A Maximum 4 Ft. Wide in One Pass
- Hopper Holds Up To 40 Lbs.

Unit whirls-on the material in a tapered, feathered pattern—eliminates stripes caused by skips and double overlaps. Spread is to front of operator. Dial-controlled spreading rate. Polyethylene hopper holds up to 40 lbs. Tubular steel frame. Die-cast gears, nylon bearings. Cyclone brand (48). Shpg. wt. 15 lbs.

No. 2Z656. Whirl-Type Spreader. Retail \$32.95. Each.....\$21.33

ELECTRIC PRUNING SAW

Powered by 1/2 HP, 4 Amp Motor
1100 Cutting Strokes per Minute

Reach
Extends
Up to
15 Ft.



\$73.50

Lightweight, powerful reciprocating pruning saw cuts clean and fast. Pruning hook grips branches 1/2" dia. or less. Quick-couple aluminum extension poles are vibration-resistant. Aluminum housing. Saw can be used without extensions for low pruning—or for cutting wood, wallboard, pipe, etc. Saw includes: Two cutting blades; blade clamp and Allen wrench; powerhead and pruning head, each 15" long; two 48 3/4" extension poles; shoulder strap. Village Blacksmith brand (20001-H&P). Shpg. wt. 14 lbs. No. 7Z403. Retail \$115.00. Each.....\$73.50

HAND PRUNER & SAW



12' Long

\$9.79

Lightweight, hand operated pruner and saw reaches limbs 12 ft. or higher. Sturdy 12" cutlery steel saw blade adjusts to 3 positions, cuts quickly without binding. Also has hook and spring-released blade for pruning small branches. Village Blacksmith brand (3997-1). Shpg. wt. 4 lbs.

No. 2Z773. Retail \$17.50. Each.....\$9.79

PUSH-TYPE 26" SWEEPER



\$46.25

Sweeps and cleans lawns, driveways, patios quickly—clears a full 26" swath. 6 1/2 bushel hamper has wind apron that traps grass clippings, leaves and other debris. Apron detaches for easy dumping. Sweeping height adjustable 0 to 2 1/2". Ball bearing mounted brush shaft, 10" semi-pneumatic wheels. Tubular steel frame. Lambert brand (B-369). Shpg. wt. 25 lbs.

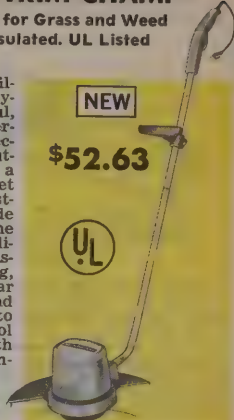
No. 2Z382. Retail \$74.00. Each.....\$46.25

SUNBEAM TRIM CHAMP®

Nylon Line Trimmer for Grass and Weed Control. Double Insulated. UL Listed

Contains 50-ft. monofilament fish line on easy-load spool. Powerful, double insulated, permanent magnet electric motor spins cutting line to deliver a tip speed of 25,000 feet per minute; trims faster than a metal-blade trimmer. Cutting line has a 12" cutting radius. High impact plastic housing. 32" long, chrome-plated, tubular steel handle has hand rest that swivels to left or right. Pistol grip top handle with safety switch. Sunbeam brand (TC1). Shpg. wt. 10 lbs.

No. 4Z025. Retail \$69.95. Each \$52.63



NEW

\$52.63



SHRUB & HEDGE TRIMMERS

15" Blade
\$24.35

18" Blade
\$28.61



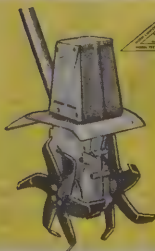
DOUBLE INSULATED

Double edge, hardened steel blades permit cutting in any direction—left, right, up or down. I-beam construction keeps motor, bearings and gears locked in line for synchronized, high performance operation and long life. Cushioned wrap-around 180° handle for comfort and control. Double reduction gears add extra power. Double insulated, high impact housing for protection against electrical shock. 12" 2-cond. cord set. Net wt. 5 1/2 and 6 lbs. Village Blacksmith brand. Shpg. wt. 6 and 6 1/2 lbs.

Blade Length	Amps at 115V	Strokes Min.	Mfrs. Model No.	Stock No.	Retail	Each
15"	2.6	1,300	9105	2Z769	\$40.50	\$24.35
18"	3.0	1,650	9111	2Z770	41.95	28.61

ELECTRIC CULTIVATOR

\$69.49



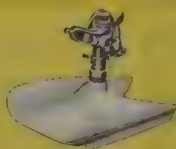
Ideal for vegetable gardens, this versatile cultivator can be easily maneuvered in and out of beds and rows with complete control. Twelve non-clogging 7" tines till an area 6" wide x 3" deep. 1/3 HP, 3 amp, 120VAC, 50/60 Hz motor drives tines at 130 RPM with no load. Extension handle has On-Off switch, 3-cond. cord set and leverage handle. Baked-on gold enamel finish with black safety guards. Net wt. 11 1/2 lbs. Village Blacksmith brand (9900). Shpg. wt. 13 lbs.

No. 2Z665. Retail \$81.50. Each.....\$69.49

SHERMAN LAWN & GARDEN SPRINKLERS



OSCILLATING SPRINKLER **\$3.56**
Lots 3



IMPULSE TYPE **\$6.75**
Lots 3



TRAVELING SPRINKLER **\$34.35**
Lots 3

Sherman lawn and garden sprinklers are precision-made to provide effective, long-life service.

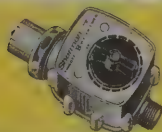
OSCILLATING SPRINKLER, No. 1P756. Features turbine-type gear motor that provides more power, throws water farther while maintaining even distribution. Finger-tip adjustment control for up to 2200 square feet.

IMPULSE SPRINKLER, No. 1P757. Throws water up to a 40 feet radius, adjustable down to 30

feet. Gives excellent coverage. All-brass sprinkler head. Operates on 20 to 55 PSI.

TRAVELING SPRINKLER, No. 1P758. Rolls across lawn automatically, in any prearranged hose pattern. Has slow-speed for light, sandy soil; fast-speed for heavy soil. One setting covers up to 50 x 200 feet. Rugged construction, positive traction—will climb steep slopes. Hose guide encircles hose.

Type	L	Dimensions H	W	Hose Thread Connection	Mfrs. Model	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Oscillating	16½"	10"	9"	¾" F	2800	1P756	\$8.25	\$4.12	\$3.56	1¼
Impulse	9	6½	7	¾" F	680	1P757	12.80	7.29	6.75	2
Traveling	22	10	9	¾" F	2000	1P758	59.25	35.68	34.35	15



AUTOMATIC SHUT-OFF WATER TIMER
\$7.10 Accurately meters water flow to provide desired soaking of lawn. Adjustable from 100 to 1400 gallons (5 minutes to 3½ hours). Shuts off automatically at pre-set quantity. Anti-hammer valve prevents pipe noise when water flow is cut off. Attaches to water faucet or between hose and sprinkler, ¾" hose thread. 6½ x 3½ x 5" D. Sherman brand (500P). Shpg. wt. 1¼ lbs.
No. 1P759. Retail \$14.50. Each \$7.68; lots 3.....\$7.10

REINFORCED VINYL & RUBBER WATER HOSE



Plastic Hose, Nylon Reinforced
Flexible at 0°F



Rubber Hose, Tyrex Reinforced

5/8, 3/4 & 1" ID by 50 or 75 Feet. For Industrial, Domestic Use

No. 1P648 Top-quality service hose for everyday water transfer applications in industry, factories, garages, farms, institutions, homes, etc. Vinyl hose is reinforced with nylon truck tire cord for extra strength—yet is lightweight and flexible. Coils easily and remains flexible at 0°F. Green outer jacket. No. 1P649, ¾" rubber hose is a rugged, all-season hose with sun-resistant green outer jacket, and reinforced with braided Tyrex tire cord for high burst strength. No. 1P650 and 1P655 3/4 and 1" heavy-duty rubber hose have sun-resistant black cover reinforced with two layers of Tyrex tire cord braid. No. 1P864 5/8" hot water hose has red all-rubber outer jacket, plus hot water tube reinforced with truck tire cord. Full-flow, solid brass couplings. Supplex brand.

I.D. Size	Type	Lgth. Ft.	Work. PSI	Del'y GPH†	Mfrs. No.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
5/8"	Vinyl	50	100	732	25478	1P648	\$14.50	\$ 9.19	\$8.59	8
5/8"	Vinyl	75	100	732	25490	1P883	20.20	12.25	11.14	12
3/4"	Vinyl	50	100	918	25474	1P755	23.25	14.57	13.41	14
5/8"	Rubber	50	125	732	25504	1P649	19.85	11.45	10.59	10
3/4"	Rubber	50	150	918	09240	1P650	36.50	22.81	21.00	18
1"	Rubber	50	175	1368	27054	1P885	65.75	38.16	35.23	20
5/8"	Rubber*	50	150	732	27038	1P884	29.00	17.06	15.75	12

(†) At 40 PSI (normal city water pressure). (*) For hot water up to 160°F.

3/4" BRASS HOSE THREAD COUPLINGS



A



B



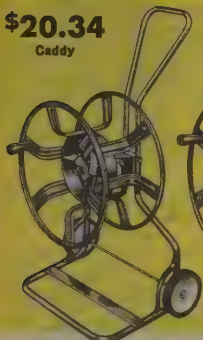
C

Fig.	Hose Thread	NPT	Hose Thread	Stock No.	Retail	Each	Lots 10
A	3/4" M	1/2" M	—	1P654	\$1.96	\$1.47	\$1.27
A	3/4" M	3/4" M	—	4X072	1.96	1.47	1.27
B	3/4" F	—	3/4" M	1P723	1.96	1.47	1.27
C	3/4" F	—	3/4" F	1P724	1.96	1.47	1.27

LARGE CAPACITY HOSE REELS

Wall Mounted or Caddy Type. Steel Construction
Holds 200 Ft. 5/8" ID Hose. 17" Diameter reels

\$20.34
Caddy



\$12.37
Wall Mount

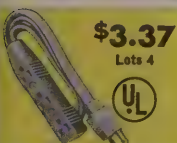


Extra large capacity hose reels, built for long service life. Heavy gauge steel construction. 17" dia. reel, 9 1/4" wide, holds up to 200 ft. of 5/8" ID plastic hose. Green baked enamel finish. Comes with connecting hose and water seal. No. 1P814 reel is mounted on a 35" high caddy cart with 5 1/2" wheels and solid rubber tires. Reel is removable so cart can be used as a utility hand truck to haul fertilizer, debris, etc. Cart handle is chrome plated. No. 1P815 features wall mounting bracket with two lock positions permitting reel to operate parallel or perpendicular to wall. Specialty brand.

Type	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
Caddy	310A	1P814	\$31.99	\$20.34	15
Wall Mt.	400A	1P815	19.79	12.37	10

WORKBENCH POWER-CENTER

3-Ft., 3-Outlet, 14/3, SPT-3 Extension Cord
Meets OSHA Requirements, UL Listed



\$3.37
Lots 4

Versatile 3-ft. heavy duty extension cord has three 3-wire connectors, similar to Powr-Center cords above. Provides added convenience at job sites, work benches, etc. Also can be attached to any 14/3 or heavier extension cord. Allows

up to three devices to be plugged into one cord. Tough vinyl jacket is moisture, oil, grease and abrasion resistant. Safety orange color. Maximum of 15 amps for total of three outlets. UL listed, meets OSHA requirements for indoor service. Carol brand (655). Shpg. wt. 8 oz.

No. 2W170. Retail \$4.31. Each \$3.45; lots 4, \$3.37

8 FT. 16/3 PLASTIC CORD



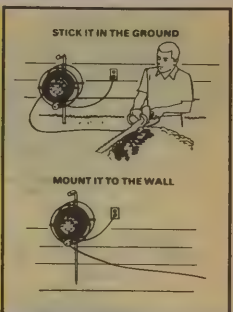
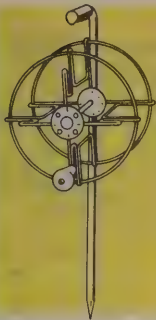
\$1.55
Lots 10

Heavy-duty, SJT thermoplastic-jacketed orange extension cord, molded 3-conductor female connector and plug. Use on power tools, garden tools, etc., where short extension cord is required. Resists corrosion from sun, moisture, oil, acids, etc. UL listed. Dayton brand. 11 oz.

No. 1W526. Retail \$2.81. Each \$1.87; lots 10, \$1.55

REEL FOR ELECTRIC CORD

All-Steel Reel Eliminates Cord Tangles



\$6.46 Ideal for outside use with all kinds of power tools, power mowers, etc.

Reel is No. 6 steel wire, coated with an attractive orange baked enamel finish. Anchor stake is made from plated-steel tubing. Unique double reel feature provides small outer reel to contain sufficient footage for plug end of cord. Inner part of reel holds main body of cord. Electrical cord stays neat and organized whether in storage or use. Free turning for easy release of cord. Reel mounts to wall with special mounting bracket or can be stuck in ground. Holds 100 ft. of 16 ga., 3-wire, round cord (not incl.). Specialty brand (357). Shpg. wt. 3 1/4 lbs.

No. 2W077. Retail \$9.70. Each \$6.46

YARD & GARDEN CART

Adjustable Rim for Different Size Bags



\$11.46

With rectangular steel rim mounted, cart holds plastic bags open and in place for collecting grass clippings, leaves, trash and other debris. With rim removed, unit serves as a handy two-wheel truck for hauling garbage cans, boxes, fertilizer, etc. Has heavy gauge steel frame with baked-on green enamel finish, plus plated steel handle and large 5 1/2" rubber wheels. Rim is adjustable for 3 to 7 bushel-size plastic bags. Individually packaged. Specialty brand (77). Shpg. wt. 8 lbs.

No. 2W078. Retail \$16.75. Each \$11.46

PLASTIC BAGS FOR CART ABOVE

Lawn leaf bags, 1 1/4 mil thick, 33 gallon (over 3 bushels), 33 W x 40 L. 50 bags per easy-to-tear-off roll. 6" twist ties included. Brute brand. Shpg. wt. 7 lbs. per roll.

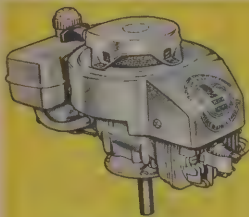
No. 5H297. Brute Plastic Bags. Retail \$8.00. Per roll \$6.00; lots 6 per roll \$5.70

Your Grainger Territory Salesman

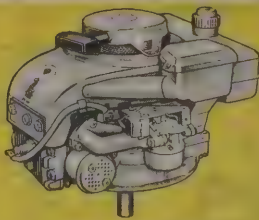
Salesman is available to assist you in selection, ordering, quoting quantity prices, etc. He can help you with your supply problems.

3 to 8 HP TECUMSEH REPLACEMENT GAS ENGINES

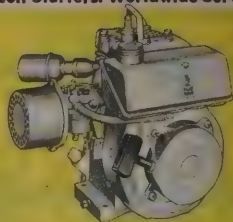
2 & 4 Cycle. Multi-Purpose For Use As Replacement Equipment. Recoil Starters. Worldwide Service



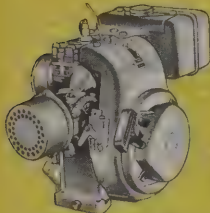
**3 1/2 HP, 2-CYCLE
VERT. CRANKSHAFT**
No. 2Z686



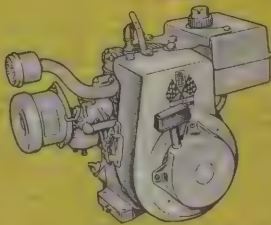
**3 1/2 HP, 4-CYCLE
VERT. CRANKSHAFT**
No. 2Z066



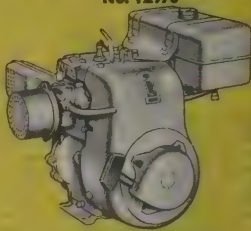
**3 1/2 HP, 4-CYCLE
HOR. CRANKSHAFT**
No. 1Z978



**3 & 3 1/2 HP, 4-CYCLE
HOR. CRANKSHAFT**
Nos. 1Z877, 2Z071



**5 HP, 4-CYCLE
HOR. CRANKSHAFT**
No. 2Z687



**6, 7 & 8 HP, 4-CYCLE
HOR. CRANKSHAFT**
Nos. 1Z923, 3Z514, 3Z515

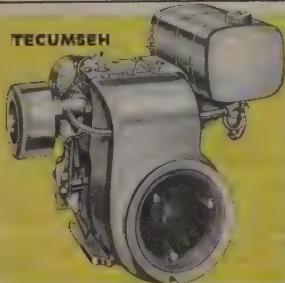
Tecumseh air-cooled, 3600 RPM (except 600 RPM on No. 2Z071) gasoline engines with Ezee-Start compression release, hot ignition and large pulley recoil starter. Two cycle, vertical crankshaft engine has aircraft-type diaphragm carburetor—plus needle bearings at magneto and PTO

sides. Four cycle engines have mechanical flyball governor located in engine crankcase. Vertical crankshaft, 4 cycle model has positive pressure pump lubrication; horizontal crankshaft, 4 cycle units have splash type lubrication. CW rotation. Tecumseh brand.

HP	Bear-ings	Crankshaft Dia. Long	Dimensions W H D	Typical Applications	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
3 1/2*	Needle	7/8" 3 1/4"	8 7/8" 11" 14 3/8"	Compressors, Rotary Mowers	800110	2Z686	\$131.30	\$70.73	17
3 1/2	Bronze	3 1/2" 3 1/2"	13 9 10 3/8"		803200	2Z066	99.40	78.10	28
3 1/2	Bronze	5/8" 2 3/4"	10 1/2" 13 12 3/4"	Reel Mowers, Generators, Pumps,	35125H	1Z978	99.95	72.31	27
3	Ball	3/4" 2 3/4"	16 3/4" 13 11 3/4"		903600	1Z877	105.95	78.57	30
3 1/2†	Bronze	3/4" 1 49/64"	16 3/4" 13 14 3/4"	Conveyors, Riding Mowers	754140	2Z071	109.90	81.45	28
5	Ball	3/4" 2 1/4"	17 3/4" 13 11 1/2"		905410	2Z687	125.80	98.61	32
6	Ball	3/4" 2 1/2"	18 3/4" 16 14 3/4"	Generators, Riding Mowers	906200	1Z923	149.80	111.32	47
7	Ball	25/32" 2 5/8"	17 3/4" 16 3/4" 14 3/4"		907210	3Z514	171.80	127.85	47
8	Bronze	1" 2 5/8"	17 3/4" 14 3/4" 15 1/2"		908200	3Z515	179.15	133.58	52

(*) Two cycle, all others are 4 cycle. (†) Has enclosed 6-to-1 gear reduction.

TECUMSEH



10 & 12 HP GAS ENGINES

4-Cycle. Heavy Duty, Long Life Construction. Rope Start

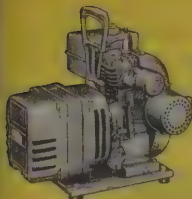
Built for total performance in heavy duty industrial applications. Extra long life, cast-iron engine with top-rated features. Automotive float-type carburetor. Large capacity dry-type air cleaner. Mechanical flyball governor in engine crankcase for positive control of engine speed.

Stellite exhaust valve and seat with wear-resisting austenitic steel intake valve and seat. Automotive-type cam-ground piston. Piston rings are heavy duty with chrome top ring and expander-type oil control ring. Engines operate at 3600 RPM maximum. CW rotation.

Super-tough, ductile-iron horizontal crankshaft. Solid-state magneto capacitor discharge ignition with Ezee-Start mechanical compression release. Large 6 quart fuel tank. Positive splash-type lubrication. Tecumseh brand.

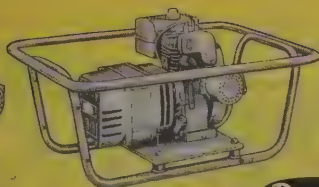
HP	Start	Bear-ings	Crankshaft Dia. Long	Dimensions W H D	Typical Applications	Mfrs. Model	Stock No.	Retail	Each	Shpg. Wt.
10	Rope	Roller	1" 3 1/4"	14 3/4" 18 1/4" 18 1/4"	Riding Mowers, Indust. Equip.	910200	3Z516	\$317.50	\$236.46	94
12	Rope	Roller	1" 3 1/4"	23 1/2" 20 1/2" 19 1/2"		912200	3Z403	293.90	217.67	104

1200 to 4000 WATT ALTERNATOR POWER PLANTS



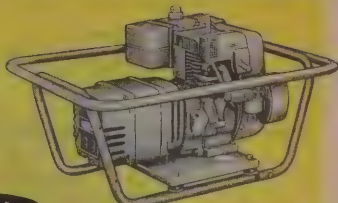
1200 Watts

A \$274.96



1750 Watts

B \$319.84



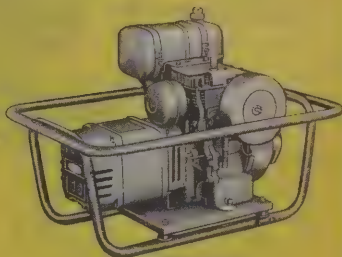
3000 Watts

C \$463.93

Dayton

CONSTRUCTION FEATURES

- Self-excited revolving field (rotor), connected directly to tapered engine crankshaft
- Stationary armature (stator) contains two 125V AC windings to supply AC power to the load
- End bell has removable plate to inspect brushes, diodes and receptacles—simplifies servicing
- Tecumseh or Briggs & Stratton 4-cycle engines with recoil starting, mechanical governors and commercial ignition shielding
- Duplex 3-conductor receptacles



4000 Watts

D \$601.31

Dayton portable air-cooled alternators for dependable power and maximum performance. All units have higher motor starting capabilities than conventional alternators. 125V models have full wattage output; dual voltage units have full wattage output at 250V only. Voltage variation is plus or minus 5%, frequency variation plus or minus two cycles. Integral terminal

box has four 115V duplex 3-conductor receptacles on 1200 and 1750 watt models; two 115V and two 230V receptacles on 3000 and 4000 watt units. Dripproof design with vibration isolation mountings. Heavy duty tubular steel wrap-around carrying frame on all units except 1200 watt model which has carrying handle. Dayton brand.

PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

Fig.	Watts Output	Volts at 60 Hz	Cont. Amps	Number		—Maximum Motor HP*—				Dimensions			Stock No.	Retail	Each	Shpg. Wt.	
				Receptacles		115V	115V	230V	230V								Capa- citor
				115V	230V												
A	1200	125	9.6	4	—	1/3	1/6	—	—	16 1/4"	17"	15"	2W183	\$425.00	\$274.96	76	
B	1750	125	14.0	4	—	1/2	1/4	—	—	31 1/2"	22 1/4"	15 1/4"	3W091	485.00	319.84	103	
C	3000	125/250	25.0/12.5	2	2	1	1/3	1	1/3	31 1/2"	22 1/4"	16 1/4"	3W092	695.00	463.93	128	
D	4000	125/250	35.0/16.7	2	2	1-1/2	1/3	2	1/3	31 1/2"	22 1/4"	21 1/4"	3W093	900.00	601.31	263	

(*) For 2-pole, 3450 RPM motors, reduce capability one HP step.

POWER PLANT ENGINE SPECIFICATIONS

Alternator Model	HP	RPM	Brand	Start	Tank Capacity	Alternator Model	HP	RPM	Brand	Start	Tank Capacity
2W183	3 1/2	3600	Tecumseh or B & S	Recoil	1 Qt.	3W092	8	3600	Tecumseh or B & S	Recoil	1 Gal.
3W091	4	3600	Tecumseh or B & S	Recoil	3 Qt.	3W093	10	3600	Tecumseh or B & S	Recoil	1 1/2 Gal.

GUIDE TO SELECTING PROPER POWER PLANT SIZE FOR ABOVE ALTERNATORS

1. Total the wattage of all appliances, tools and light bulbs to be operated at same time. Most appliances have label showing wattage (if volts and amps are given, volts x amps = wattage).
2. Add starting watts for motors to be started while other items are running. See "Motor Starting Watts Required" at right. Note: For hard starting or high inertia equipment like compressors and blowers, increase motor starting watts required by 25%.
3. Order a power plant 25% larger than total to allow for anticipated future needs or use of extra equipment.

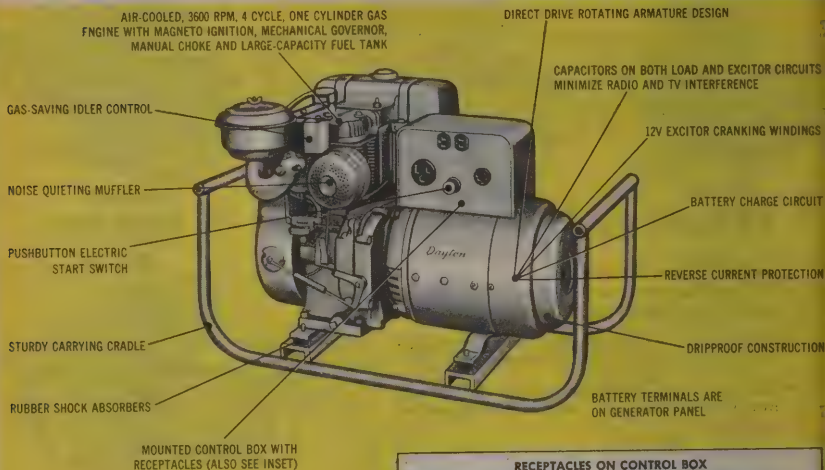
MOTOR STARTING WATTS REQUIRED

1725 RPM Motor HP(*)	Induction Motor Capacitor	Type Split Phase	Watts Req'd. Running
1/8	425	1100	230
1/6	620	1675	284
1/4	850	2100	420
1/3	1250	3350	480
1/2	1750	4200	680
3/4	2500	—	875
1	3000	—	1050
1 1/2	3500	—	1575
2	4000	—	2100

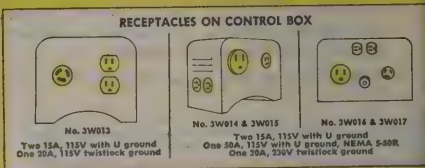
(*) Increase above figures 15% for 3450 RPM motors

SEE WARRANTY INFORMATION ON PAGE 684

Dayton 2000 to 7000 WATT HIGH-PERFORMANCE



**PREPAID FREIGHT ON
SHIPMENTS OF 300 LBS.
AND OVER**



Dayton high performance generator power plants are built to highest quality standards—incorporating construction features designed for efficient, trouble-free operation (see illustration above). The result: a combination of unique operating features described on opposite page.

Units can be operated continuously at full-rated loads for handling practically any power application, including frequency sensitive loads encountered with induction-type motors, fluorescent lamps and TV sets. Authorized service

stations with factory-trained personnel are located in most principal cities. Gasoline engines are Briggs & Stratton or Wisconsin brand—designed and built specifically for generator applications. Parts and service are readily available throughout the country.

Dayton generators are shipped completely assembled, ready to operate: Just add gasoline and crankcase oil, start engine and connect load. Operating manual, service guide, and parts list are packed with each unit.

GUIDE TO SELECTING POWER PLANT SIZE

Following are three guidelines that will help you choose the right size power plant for the application:

1. Total the wattage of all appliances, tools and light bulbs to be operated at same time. Most appliances have label showing wattage (if volts and amps are given, volts x amps = wattage).
2. Add starting watts for motors to be started while other items are running. See "Motor Starting Watts Required" at right. Note: For hard starting or high inertia equipment like compressors and blowers, increase motor starting watts required by 25%.
3. Order a power plant 25% larger than total to allow for anticipated future needs or use of extra equipment.

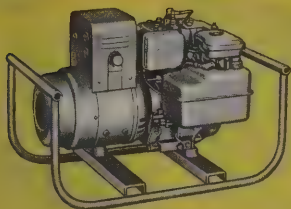
MOTOR STARTING WATTS REQUIRED For High Performance Generators Only

1725 RPM Motor HP	Induction Capacitor	Motor Type Split Phase*	Watts Req'd. Running*
1/8	400	800	225
1/8	600	1000	275
1/4	800	1500	400
1/8	1200	2000	500
1/8	1500	2500	700
3/8	2100	3500	950
1	2500	—	1200
1 1/2	3000	—	1600
2	3500	—	2200
3	4200	—	3200
5	7100	—	4700

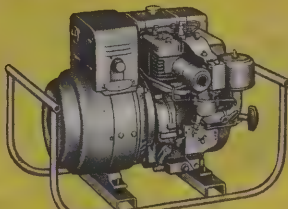
(* Increase above figures 15% for 3450 RPM motors)

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

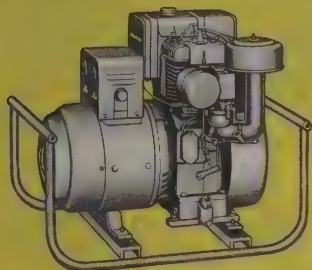
115 & 115/230 VOLT GENERATOR POWER PLANTS



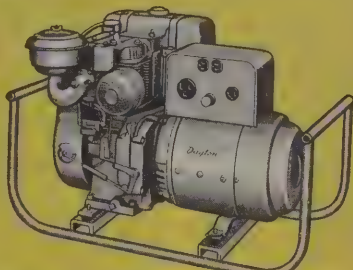
No. 3W013, 2000W



No. 3W014, 3000W



No. 3W015, 4000W



3W016, 6000W • 3W017, 7000W

HIGH PERFORMANCE GENERATOR OPERATING FEATURES

CONTINUOUS-DUTY RATED — Operate efficiently at full-rated loads in continuous-duty applications.

FULL WATTAGE OUTPUT — From a single 115V or 230V outlet, or combination of both. Most conventional power plants require distribution of 115V load on two circuits, thus using only 50% of rated capacity.

HIGH MOTOR STARTING — Special windings provide extra power for starting motors up to 1/2 times larger in HP than most other makes.

INHERENT VOLTAGE REGULATION — Output voltage adjusts automatically to match load required.

TWO-WAY ENGINE STARTING — Units have 12V electric-start system (battery not included), and can also be cranked manually to start.

GAS-SAVING IDLER CONTROL — Automatically returns engine to idle speed when load is removed to reduce fuel consumption and minimize engine wear. Also brings engine up to full RPM when load is applied.

PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

HIGH-PERFORMANCE GENERATOR SPECIFICATIONS & PRICES

Cont. Watts Output	Engine HP	Volts at 60 Hz	Cont. Amps at 115V	Number of Receptacles at 115V	230V	Max. Motor HP 115 or 230V Capacitor	115 or 230V Split Phase	Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
								L	W	H				
2000	5.0	115	17.4	3	—	3/4	1/3	25"	16"	18"	3W013	\$613.95	\$460.50	94
3000	7.0	115/230	26.0	3	1	1 1/2	3/4	25	18	18	3W014	911.95	684.12	153
4000	9.0	115/230	34.8	3	1	3	3/4	28	20	24	3W015	1301.00	976.30	267
6000	14.1	115/230	52.0	3	1	4	3/4	36	21	28	3W016	1720.00	1290.67	345
7000	14.1	115/230	60.8	3	1	5	3/4	36	21	28	3W017	2046.95	1535.93	400

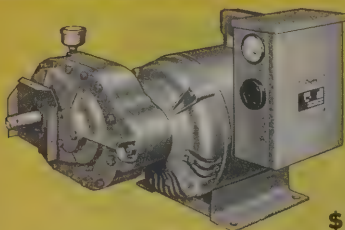
4-CYCLE GAS ENGINE SPECIFICATIONS FOR ABOVE POWER PLANTS

Power Plant	HP	Engine Brand	Cylinder		Type Starter	Tank Capacity	Fuel GPH @ Full Load	Overall Dimensions		
			Bore	Stroke				H	W	D
3W013	5.0	B & S	2 3/16"	2 1/8"	Elec. or Recoil	3 Qts.	.69	12 7/8"	13 3/8"	12 3/4"
3W014	7.0	B & S	3	2 3/8"	Elec. or Recoil	4 Qts.	.76	15 1/4"	17 1/2"	14 1/8"
3W015	9.0	B & S	3	3 1/4"	Elec. or Rope	6 Qts.	1.0	20 1/2"	29 3/8"	15 5/8"
3W016	14.1	Wisconsin	3 3/4"	3	Elec. or Rope	6 Qts.	1.42	21 1/2"	20 1/2"	16 1/4"
3W017	14.1	Wisconsin	3 3/4"	3	Elec. or Rope	6 Qts.	1.66	21 1/2"	20 1/2"	16 1/4"

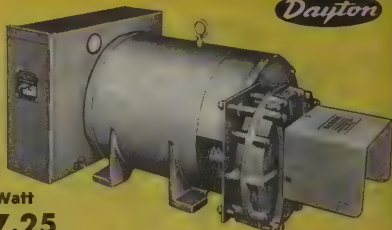
SEE WARRANTY INFORMATION ON PAGE 684

DIRECT-DRIVE POWER TAKE-OFF GENERATORS

Available in 4 Capacities to Provide 12,000, 15,000, 20,000 or 30,000 watts, 115/230V, 60 Hz AC Output



No. 1W728, 3W010, 3W108



No. 3W055

12,000 Watt
\$1027.25
Freight Prepaid

Designed and built to be direct-driven with power take-off from tractors, bulldozers, etc. For standby or portable 115 and 230V, 60 Hz power supply. Operates welders, motors, other power equipment. No. 1W728 starts up to 5 HP motors; No. 3W010 up to 10 HP motors; No. 3W108 up to 15 HP motors; and No. 3W055 up to 20 HP motors. Compact, heavy duty generators produce rated capacity at continuous duty. Driven with 540 RPM power source, using 2.3 HP per 1000 watts output. Built-in speed step-up gear box. Units come complete with safety

voltmeter; overload fuse protection (except No. 3W055 has manual reset circuit breaker); one duplex U grounded-type 15 amp, 115V receptacle; and one 3-wire, 50 amp, 230V receptacle. Model 3W055 also has three 100 amp connector plugs with necessary male plugs. Ample knockouts for conduit or connectors. 1 1/2" dia. shaft with 1/4" Woodruff key and dowel pin—except No. 3W055 has 1 3/8" dia. spline shaft. Heavy duty steel base with mounting holes. Lifting eye included on all units. Green enamel finish. Dayton brand.

Cont. AC Watts	Cont. Amps at 230V	HP Required	Overall Dimensions W	H	L	Stock No.	Retail	Each, Freight Prepaid	Shpg. Wt.
12,000	52	28.	20"	16"	26"	1W728	\$1368.95	\$1027.25	305
15,000	65	35	20	16	26	3W010	1478.50	1109.47	320
20,000	83	40	20	16	27	3W108	1517.95	1187.12	329
30,000	125	60	23	18	35	3W055	2559.45	1919.59	559

POWER TAKE-OFF ATTACHMENT KITS FOR ABOVE GENERATORS

Shielded, universal telescoping pin and coupling. Model 2W083 has a 1 3/8" spline at both ends. No. 1W729 has a 1 3/8" spline at one end and a 1 1/2" round with 1/4" key at the other end. Kits have hardware for operating generators from engine-driven machinery. Dayton brand.

Overall Length	Fits Generator Number	Stock No.	Retail	Each	Shpg. Wt.
33"	3W055	2W083	\$176.50	\$132.22	42
48"	1W728, 3W010, 3W108	1W729	120.75	107.58	32

Dayton HEAVY-DUTY BELT-DRIVEN GENERATORS

1000 to 12,000 Watts. 115 and 115/230 Volts, 60 Hz, AC. Heavy-Duty, Ball Bearing



No. 1W545

1000 Watt
\$195.49



No. 1W628

For continuous-duty portable and standby power needs. Generators rated 3600 RPM, 115 and 115/230V, 60 Hz AC. Belt-driven by tractor, truck, car, etc. Heavy duty ball bearing construction. Self-excited. CW or CCW rotation—except No. 1W820 is CCW only. Drive pulley not included.

All models equipped with duplex: 115V receptacle. Nos. 1W628, 1W629 and 1W820 also have one 3-wire, 1 amp, 230V receptacle.

Equipped with static suppression condensers, have built-in 0 to 30 scale AC voltmeter so operator can adjust engine speed to obtain voltage desired. Heavy steel frames and bases. Dayton brand.

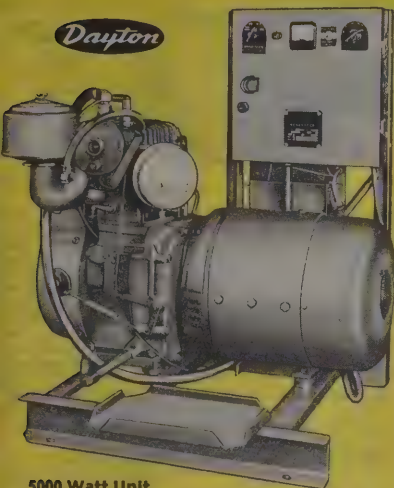
Cont. AC Watts Output	Volts at 60 Hz	Cont. Amps	HP Req'd.	Overall Dimensions L	D	Type	Pulleys Required P.D.	Bore	Stock No.	Retail	Each	Shpg. Wt.
1000	115	8.7	2.5	9 1/2"	14 3/8"	6 1/2"	1A	4.7"	1W545	\$260.50	\$195.49	52
2000	115	17.4	5.0	9 1/2"	15 3/8"	6 1/2"	1A	4.7"	1W546	296.50	222.43	56
3500	115/230*	15.2†	8.8	12	12 3/4"	11	1B	6.0"	1W628	468.50	351.42	78
5000	115/230*	21.7†	12.5	12	14	11	2B	5.4"	1W629	556.50	417.45	81
12000	115/230*	52.1†	30.0	17 1/4"	22 3/4"	12	4B	5.8"	1W820	1046.95	785.54	247

(*) Delivers both 115V and 230V at the same time. (†) Amps at 230V.

OPEN ACCOUNT TERMS can be granted to all resellers with established credit, on request.

5000 to 18000 WATT AUTOMATIC GENERATORS

Start Automatically when Line Power Fails, Shut Off when Power Resumes
Engines are Properly Adjusted to Run on LP or Natural Gas—Not for Use with Gasoline



5000 Watt Unit

\$1573.93 Includes Emergency
Freight Prepaid Transfer Control Panel

Units keep lighting, heating or cooling systems, office equipment, etc. operating when power fails—and do it automatically within 10 seconds from time line power fails. Powered by a Briggs & Stratton or Wisconsin (see table) air-cooled, 4-cycle engine with magneto ignition. LP and natural gas fuel systems. Generators are of the rotating armature, direct-drive type; single phase, 60 Hz, drip-proof construction. NEMA-standard insulation. Capacitors are included on load circuits and excitor circuit to minimize radio and TV interference. All units include exterior cranking windings.

The emergency transfer control is operated by four primary elements that automatically start the emergency power system whenever power line fails, and stop it when power is restored. (1) **Transfer switch**—Connects the load to power line when energized; disconnects load from power line when power fails and connects load to generator when it starts up. (2) **Start-stop circuit**—When power line fails, this control cranks the engine. When power is restored, it stops the engine. Has relay that stops cranking after approximately one minute if engine fails to start, thus preventing 12V battery (not included) from running down. (3) **Battery charger**—Has a built-in trickle charger to supply enough current to maintain charge. Charging rate can be varied on control box cover. (4) **Operation control**—Selector switch on control box cover lets operator override the automatic starting and stopping feature. Four positions are provided: Crank (for cranking engine by hand), Stop (for servicing when engine would normally be running), Automatic (for normal emergency stand by), and Check (starts engine but load remains connected to power line unless power line fails). Dayton brand.

PREPAID FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

Cont.† Watts Output	Volts at 60 Hz	Cont. Amps at		Gas Engine HP Brand	Approx. Fuel Per Hour, Full Load		Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.		
		115V	230V		LP Gas	Nat. Gas 1000 BTU	L	W	H						
000	115/230	44*	22	10.0	B&S	7.1 lbs.	125	cu. ft.	25"	30"	30"	3W056	\$2098.95	\$1573.93	270
000	115/230	60*	30	14.1	Wisc.	8.3	177		36	30	30	3W057	2615.00	1961.13	370
0000	115/230	88*	44	16.8	Wisc.	11.2	250		36	30	40	3W058	3726.50	2796.20	576
8000	115/230	156*	78	37.0	Wisc.	19.4	465		48	38	41	3W109	5481.95	4287.01	1040

† Continuous amps at 115V must be divided between two lines.

*) When using natural gas, decrease rated output 20% or more (depending on BTU content of local gas supply).

SPORT & HOME GENERATOR

500 Watts, 115 Volts, 60 Hz, 19.6 Amps AC Output
For Operating Lighting, Home Appliances, Etc.



\$598.34

The ideal power plant for campers and homeowners. Unit operates lighting, refrigerator, heating system, freezer or other appliances. Powered by a 5 HP, air-cooled, 4 cycle Briggs & Stratton 3600 RPM gas engine with 3 quart fuel tank capacity, manual choke and electronic idling control that idles engine when power is not required, and revs up to full engine speed when power is needed. Generator is of the rotating armature, direct-drive type; single phase 60 Hz, drip-proof construction. Insulation is in accordance with NEMA standards. Capacitors are included on both load and excitor circuit to minimize interference with radio and TV. Has pushbutton 12V electric start, plus built-in recoil starting for fast, dependable starts when electric source is not available. Safety stop includes remote spark plug grounding with insulated button to prevent accidental shocks. Other features include a well ventilated muffler safety guard, spark arresting muffler, shock absorbers and carrying handles. Equipped with a duplex U-grounding, 15 amp receptacle, NEMA type 5-15R. Overall dimensions 24L x 15 W x 16" H. Shpg. wt. 130 lbs. Dayton brand.

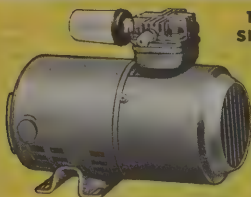
No. 3W054. Retail \$797.50. Each **\$598.34**

Use Fast Grainger Supply Service — Large Stocks Maintained Near You

SEE WARRANTY INFORMATION ON PAGE 684

1 & 2-CYL., 1/6 TO 3/4 HP OILLESS COMPRESSORS

Reciprocating Piston Type for Continuous Duty Applications. Up to 2.5 CFM Free Air at 100 PSI



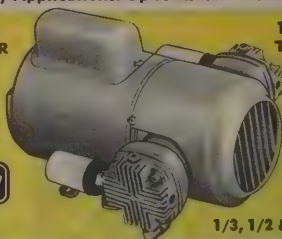
1/6 HP, No. 2Z867
SINGLE-CYLINDER

\$95.27

Lots 3

Speedaire

1/6 HP Models



1/3 HP, No. 2Z868
TWIN-CYLINDER

\$135.29

Lots 3



1/3, 1/2 & 3/4 HP Models

1/6, 1/3, 1/2 and 3/4 HP quality oilless compressors rated for high-pressure, continuous duty operation in printing, laboratories, medical use, water aeration systems, computers, photo and chemical processing applications. Precision units designed especially for long life under the most demanding applications. Single-cylinder unit has filter and safety valve; twin-cylinder units have two filters and safety valve. All units have thermally protected motors with high torque start windings 115V, 60 Hz. UL listed. Finished in green enamel. Speedaire brand. See table below for complete data on dimensions, performance specifications and prices.

CONSTRUCTION FEATURES: Exclusive lap-joint Teflon piston rings with stainless steel seals help units maintain rated air flow throughout service life. Stops air leakage that normally occurs as ring joints open with wear.

Large piston skirt ring of filled Teflon for low friction coefficient between piston and cylinder. Deep-ribbed cast aluminum cylinder heads for efficient cooling. 4-port heads for hookup versatility. Efficient corrosion-resistant sandwich valve design stops foreign particles from lodging on valve seats. Aluminum cylinders and pistons for fast heat dissipation. Permanently lubricated needle bearings on wrist pin and ball bearings on connecting rod.

OILLESS COMPRESSOR OPERATING PERFORMANCE & PRICE DATA

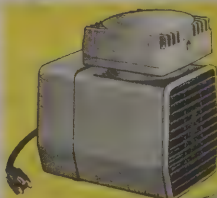
HP	L	W	H	FREE AIR CFM						Stock No.	Retail	Each	Lots 3	Shpg. Wt.
				20 PSI	40 PSI	50 PSI	70 PSI	90 PSI	100 PSI					
1/6	11 $\frac{5}{8}$ "	5 $\frac{5}{8}$ "	8 $\frac{1}{4}$ "	1.00	.80	.70	.50	.40	.38	2Z867	\$111.43	\$100.28	\$95.27	21
1/3	12 $\frac{1}{2}$ "	10 $\frac{1}{4}$ "	8 $\frac{1}{2}$ "	1.95	1.60	1.50	1.30	1.20	1.10	2Z868	158.23	142.41	135.29	29
1/2	13 $\frac{1}{4}$ "	11 $\frac{1}{4}$ "	8 $\frac{1}{2}$ "	3.00	2.55	2.35	2.05	1.80	1.70	2Z869	203.66	183.29	174.13	39
3/4	13 $\frac{3}{4}$ "	11 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	4.10	3.60	3.40	3.00	2.60	2.50	2Z870	228.57	205.71	195.43	46

DIAPHRAGM COMPRESSOR/VACUUM PUMPS

1/8 & 1/3 HP High-Pressure Units. For Continuous Duty Applications Requiring Up to 50 PSI

Combination diaphragm compressor and vacuum pumps for continuous duty applications in labs, printing, medical use, water aeration, computers, chemical and photo processing. Maintain 24" Hg vacuum. Quiet operation: 55 dbA maximum sound level at 50 PSI for No. 2Z866; and 64 dbA maximum at 50 PSI for No. 4Z024.

CONSTRUCTION FEATURES: Inlet and exhaust valve seats are cast in head, eliminating separate valve plate and gasket for minimum head clearance and higher pressure. Air flow enters and exits at head; no danger of vaporized grease from bearings being picked up and carried into system. Reversible intake and exhaust. Lifetime lubricated bearings. Large motor and rod bearings; large diameter motor shaft. Connecting rod permanently bonded to rod bearing to prevent loosening. Cast aluminum head, housing, connecting rod. Swedish stainless steel reed-type valves. No. 2Z866 has $\frac{1}{8}$ HP, shaded pole automatic thermal overload protected motor and No. 4Z024 has $\frac{1}{3}$ HP permanent split-capacitor automatic thermal overload protected motor. Both come complete with 6 ft. 3-wire cord with molded 3-prong plug. Green metallic finish. Speedaire brand.

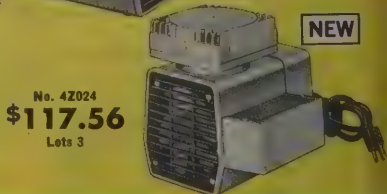


- Pressure or vacuum without modification
- Rugged diaphragm of Norel/Nomex®
- Extra quiet

No. 2Z866

\$74.40

Lots 3



No. 4Z024

\$117.56

Lots 3

FREE AIR CFM*

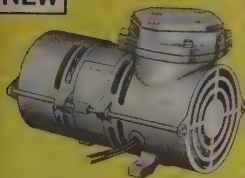
HP	Stock No.	Vacuum In./Hg						Pressure—PSI				
		5	10	15	20	24		10	20	30	40	50
1/8	2Z866	.77	.56	.35	.16	.05		.90	.70	.52	.38	.23
1/3	4Z024	1.5	1.0	.65	.30	.08		1.6	1.3	1.0	.70	.54

(*) Performance rated with motor run at 60 Hz for No. 4Z024. If 50 Hz is used, deduct 1/5 off ratings.

HP	Motor			RPM	Dimensions, Inches			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	Volts	Hz			Length	Width	Height					
1/8	115	60		1725	7 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	7 $\frac{1}{2}$ "	2Z866	\$ 87.02	\$ 78.32	\$ 74.40	19
1/3	115	50/60		3450	7 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	4Z024	137.50	123.75	117.56	21

MINI-DIAPHRAGM COMPRESSOR/VACUUM PUMP

NEW



Speedaire

\$60.87

Lots 3

Delivers .05 Free Air CFM @ 50 PSI

Compact combination diaphragm compressor and vacuum pump is used by OEM and as replacement unit in coffee, food and vending machines, medical equipment, auto analyzers, hair spray dispensers and office copiers. Mounts are identical in tap sizes and base layout to all models in Thomas Industries' Series 107. Designed for high pressure continuous-duty. Maintains 24" Hg vacuum.

CONSTRUCTION FEATURES: Inlet and exhaust valve seats are cast in head, eliminating separate valve plate and gasket for minimum head clearance and higher pressure. Reversible air flow enters and exits at head. Bonded connecting rods. Swedish stainless steel reed-type valves. Fractional HP shaded pole, 115V, 60/50 Hz, automatic thermal overload protected motor draws 1.8 amps. Has 12" wire leads and grounding screw, 7 $\frac{3}{32}$ L x 4 $\frac{3}{32}$ W x 4 $\frac{1}{16}$ " H. Metallic green finish. Speedaire brand. Shpg. wt. 6 lbs. **No. 4Z026.** Mini-Compressor/Vacuum Pump. Retail \$71.20. Each \$64.08; lots 3.....\$60.87

	Vacuum In. Hg					Pressure—PSI				
	5	10	15	20	24	10	20	30	40	50
Free Air CFM	.35	.23	.16	.08	.02	.35	.26	.18	.11	.05

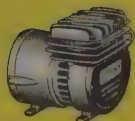
Note: Performance above is rated at 60 Hz. If run at 50 Hz, deduct 1/5 off above figures.

OILLESS COMPRESSORS & VACUUM PUMPS

Single and Dual-Purpose Units For Most Compressed Air & Vacuum Service Applications.

1/12, 1/3 and 1/2 HP. Up to 6.7 CFM Displ. Vacuum Up to 26" Hg

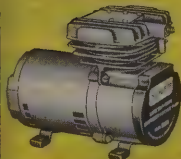
Speedaire



\$43.11

Lots 3

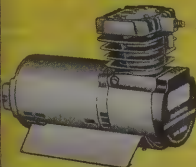
No. 2Z626
1.7 CFM Displ.
1/12 HP



\$78.37

Lots 3

6.7 CFM Displ.
1/3 HP



\$101.22

Lots 3

6.1 CFM Displ.
1/2 HP

Versatile, lightweight, intermittent duty Speedaire portable air compressors, vacuum pumps and combination units built for commercial applications. For use in printing and lithographing operations, laboratories, medical applications, computers, photo and chemical processing; also for hobby, classroom, painting and maintenance use. Compressors deliver oil-free air at pressures up to 50 PSI. Component parts are permanently lubricated and sealed for maximum protection against corrosion. Designed to give adequate life under intermittent duty applications. Aluminum die cast body, sealed ball bearings. 115V, 60 Hz. Gray enamel finish.

No. 2Z626, 4" dia. Diaphragm Compressor. 1/12 HP motor, 7 ft. grounded power cord. Swedish steel reed valves. Delivers 0.58 CFM at 20 PSI, maximum 35 PSI.

No. 2Z627, 4" dia. Diaphragm Vacuum Pump. 1/12 HP motor, 7 ft. grounded power cord. Bronze end bearings, Swedish steel reed valves, two-ply neoprene diaphragm. Pulls up to 24" Hg vacuum.

No. 2Z628 5 $\frac{1}{2}$ " dia. Diaphragm Combination Compressor and Vacuum Pump. 1/3 HP split phase motor, 8 ft. grounded power cord. Delivers 2.7 CFM at 30 PSI, maximum 40 PSI. Converts easily to vacuum pump, pulls up to 26" Hg vacuum. Safety relief valve. Can be used with No. 2Z362, 2Z363, 2Z364 spray guns or No. 2Z367, 2Z368 production paint tanks. See Index under Sprayers, Paint.

No. 2Z629 Combination Piston Compressor and Vacuum Pump. 1/2 HP split phase motor, 8 ft. grounded power cord. Delivers up to 2.8 CFM at 40 PSI, maximum 50 PSI. Converts easily to vacuum operation, pulls up to 26" Hg. Integral oilless piston one cylinder compressor with teflon rings and self-lubricating cylinder liner. Safety relief valve. Can be used with No. 2Z362, 2Z363, 2Z364 spray guns or No. 2Z367, 2Z368 production paint tanks. See Index under Sprayers, Paint.

OPERATING PERFORMANCE AS COMPRESSOR OR VACUUM PUMP

HP	Stock No.	Displ. CFM	FREE AIR CFM					FREE AIR CFM (Vacuum-Inches/Hg)				
			10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	10	15	20	25	27
1/12	2Z626	1.70	.92	.58	.30	—	—	.85	.60	.25	0	—
1/12	2Z627	1.70	—	—	—	—	—	2.15	1.60	1.03	.43	0
1/3	2Z628	6.70	3.70	3.20	2.70	2.10	—	2.25	1.68	1.12	.50	0
1/2	2Z629	6.10	3.70	3.50	3.30	2.80	—	—	—	—	—	—

PRICES & DIMENSIONAL DATA

HP	Displ. CFM	Bore	Stroke	Outlet Intake		L	W	H	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
				NPT	NPT								
1/12	1.70	—	.200"	1/4"	—	8 $\frac{1}{2}$ "	6"	7"	2Z626	\$79.00	\$46.70	\$43.11	11
1/12	1.70	—	.200	—	1/4"	8 $\frac{1}{2}$ "	6	7	2Z627	83.50	49.23	45.45	11
1/3	6.70	—	.203	1/4	3/8	14	6 $\frac{3}{8}$	9 $\frac{1}{4}$	2Z628	141.00	84.90	78.37	24
1/2	6.10	2 $\frac{1}{2}$ "	1 $\frac{1}{8}$	1/4	3/8	15	7	10 $\frac{1}{2}$	2Z629	182.00	109.65	101.22	33

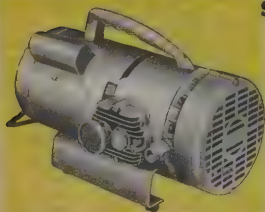
SEE WARRANTY INFORMATION ON PAGE 684

BELL & GOSSETT PORTABLE OILLESS COMPRESSORS

1/2 & 3/4 HP. 5.4 and 6.57 CFM Displacement. Delivers Completely Oil-Free Air

\$189.47

1/2 HP, Lots 3



Compact, single-stage compressor delivers clean, oil-free air at 50 PSI, continuous duty. Widely used for high precision air tools by machinists, doctors, dentists, etc. Also popular for paint spraying, aeration, laboratory equipment, insecticides, automotive, etc. Body incorporates a patented, pressure-tight finned chamber that discharges cooled air in a steady, even flow. Chamber acts as an aftercooler, smoothing out air pulsations to aid in quiet operation. Allows for direct coupling of pressure switch, eliminating the need for an air tank. Powered by 115V, 60 Hz, 1725 RPM, capacitor-start, high-torque motor specifically designed for this integral compressor. Motors have ball bearing and automatic reset thermal protection. Units do not require lubrication. Compressor has heavy duty pistons, teflon rings and teflon-impregnated cylinder head. Bearings are grease-packed, sealed for life. 1/4" IPT. Blue hammertone enamel finish. Bell & Gossett brand.

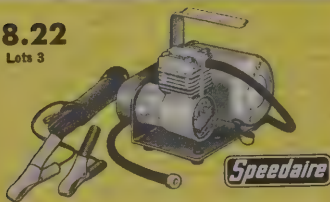
HP	CFM Displ.	CFM 50 PSI	Volts 60 Hz	H	Dimensions W L	Stock No.	Retail	Each	Lots 3 Asst'd	Shpg. Wt.
1/2	5.4	4.1	115/230	11"	12 1/2" 18"	12748	\$237.00	\$201.12	\$189.47	47
3/4	6.57	4.9	115/230	11"	12 1/2" 18"	12964	268.50	228.46	214.93	56

12VDC COMPACT SPEEDAIRE AIR COMPRESSOR

12 ft. Connecting Cord & Clips, 3 ft. Air Hose. Delivers up to .57 CFM, Max. 60 PSI

\$28.22

Lots 3



Lightweight, versatile 12VDC air compressor for auto, home, farm, recreational, boating and shop use. Intermittent duty applications include: tire inflation, water pressure systems in recreational vehicles, air jacks, horns and shocks, parts cleaning, radiators and spray guns. Compact—measures 5 x 5 1/2 x 4 1/2". Silenced intake for quiet operation. Toothed-belt drive. Oilless crankcase—may be mounted in any position. Lifetime lubricated. Quality construction features include: aluminum head, crankcase, piston and rod; needle bearings. Built-in 60 PSI safety valve. For 12VDC operation. Includes 12 ft. cord and clips for connection to battery, 3 ft. flexible air hose, air chuck, inflator nozzle, needle inflator for sports equipment. Silver, black and red finish. Speedaire brand. Shpg. wt. 5 1/2 lbs.

No. 22880. 12VDC Air Compressor. Retail \$36.95. Each \$29.52; lots 3.....\$28.22

OPERATING PERFORMANCE

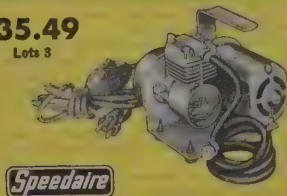
Pressure	10	20	30	40	50	60
Free Air CFM	.57	.50	.44	.38	.33	.29

115V, 60 Hz COMPACT SPEEDAIRE AIR COMPRESSOR

6 ft. Cord Set with On-Off Switch, 3 ft. Air Hose. Delivers up to .78 CFM, Max. 60 PSI

\$35.49

Lots 3



Versatile, compact 115V, 60 Hz air compressor for home, farm, recreational, and shop use. Higher pressure capability than other compact units. Intermittent duty applications include: tire inflation, water pressure systems in recreational vehicles, air jacks, horns and shocks, parts cleaning, radiators and spray guns. Compact—measures 5 x 5 1/2 x 4 1/2". Silenced intake for quiet operation. Toothed-belt drive. Oilless crankcase—may be mounted in any position. Lifetime lubricated. Quality construction features include: aluminum head, crankcase, piston and rod; needle bearings. Built-in 60 PSI safety valve. For 115V, 60 Hz operation. 6 ft cord set with in-line On-Off switch, 3-prong plug 3 ft. flexible air hose, air chuck, inflator nozzle, needle inflator for sports equipment. Silver black and red finish. Speedaire brand. Shpg. wt. 4 1/2 lbs.

No. 22928. 115V, 60 Hz Air Compressor. Retail \$46.50. Each, \$37.13; lots 3.....\$35.49

OPERATING PERFORMANCE

Pressure	10	20	30	40	50	60
Free Air CFM	.78	.69	.62	.55	.49	.44

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.

1/2 HP 3 GAL. COMPACT COMPRESSOR

Belt
Guard
Included



Speedaire

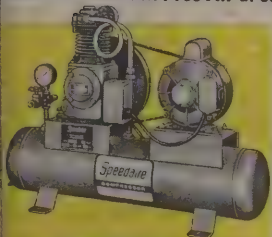
3.2 CFM Displ. 1.9 CFM Free Air at 100 PSI

Designed for applications where space is limited. Perfectly suited for special machinery, hobby shops, homeowners, and farms. Single-cylinder cast iron pump features needle roller bearings, Swedish steel reed valves, balanced crankshaft, and fan-type flywheel 2 1/4" bore x 1 1/2" stroke. Mounted on compact 3 gal. stationary non-code tank which fits under work bench, table, desk, etc. Pressure switch set for 70 PSI on and 100 PSI off. Comes complete with belt guard, combination unloader and check valve, safety valve, gauge, and 1/4" shut-off. Powered by Dayton 1/2 HP, 115V, 60 Hz motor with manual reset thermal protection. Delivers 1.9 CFM free air at 100 PSI. 8 ft. 16/3 grounded cord. Gray enamel finish. 25 L x 8 1/2 W x 19" H. Shpg. wt. 67 lbs.

No. 22653. 1/2 HP, 3 Gal. Compact Compressor. Retail \$232.00. Each.....\$139.00

1/2 HP COMPACT 2.64 CFM DISPL. COMPRESSOR

1.7 CFM Free Air at 80 PSI. 3 Gallon Tank Complete with 1/2 HP Dayton Motor



Speedaire

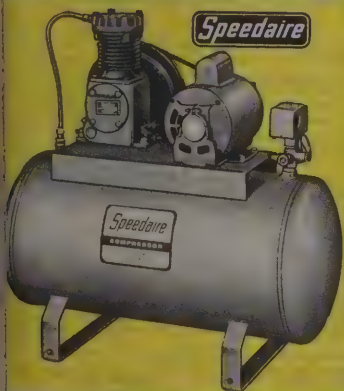
\$135.29

A compact, lightweight, stationary tank compressor (only 25" long) for intermittent service in farm, shop, garage and other applications where space is limited. Excellent for tire inflation, paint and insecticide spraying. Has single-cylinder Speedaire compressor pump with 1 1/4 bore x 2" stroke. Sleeve bearings, reed-type valves, 3-ring aluminum pistons and 9/4" flywheel. Powered by 1/2 HP, 3450 RPM, 115/230V, 60 Hz Dayton motor with 8 ft. 16/3 SJ cord set. Unit is mounted on 3 gallon, 6" dia. x 25" L steel air tank. Pressure switch is set to cut in at 60 PSI and out at 80 PSI. Comes complete with Load Genie combination check valve and unloader, 100 PSI pressure gauge 1/4" shut-off cock, and safety valve. Delivers 1.86 CFM at 60 PSI and 1.7 CFM at 80 PSI. Furnished assembled and ready to operate. Blue-gray finish. 25 L x 19 1/4 H x 8" W. Shpg. wt. 57 lbs. Belt guards available on special order, at extra cost. Order from nearest Grainger location for fastest service.

No. 3Z349. 1/2 HP Compressor. Retail \$226.00. Each.....\$135.29

1/2 HP 2.64 CFM DISPL. AIR COMPRESSOR

1.86 CFM Free Air at 60 PSI. 12 Gallon Tank. With or Without Motor



Speedaire

\$101.65

Less Motor

\$136.02

With Motor

Low priced 1/2 HP heavy duty Speedaire compressor. Makes ideal air unit for small garages, service stations, factories, farms, paint spraying, insecticide spraying, laboratories, etc. Compressor is mounted on 12 gal. 12 x 26" steel tank tested for 165 PSI. Pressure switch set to cut in at 60 PSI and cut out at 80 PSI. 1 1/4" bore, 2" stroke. 2.64 CFM displacement and 1.86 CFM free air at 60 PSI, 1.7 at 80 PSI. Furnished with pressure switch, pressure gauge, combination unloader and check valve and relief valve. 9/4" flywheel. 2 1/2" dia. x 5/8" bore motor sheave and A-belt. Gray enamel finish. Belt guards available, see Index under Guards, Belt Drive. Shpg. wt. 55 lbs.

COMPRESSOR LESS MOTOR

No. 1Z286. 1/2 HP. 2.64 CFM Displ. Compressor, less motor. Retail \$157.00. Each.....\$101.65

COMPRESSOR WITH PROPER MOTOR

Complete unit. No. 1Z286 compressor, above, with Dayton 1/2 HP, 3450 RPM, 115/230V, 60 Hz capacitor motor. Motor packed in separate carton—easily mounted on compressor platform. Shpg. wt. 73 lbs.

No. 7Z001. No. 1Z286 Compressor with 1/2 HP Motor. Retail \$209.50. Each.....\$136.02

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

Quantity Prices on Motors for OEM Production Use — Fast Delivery

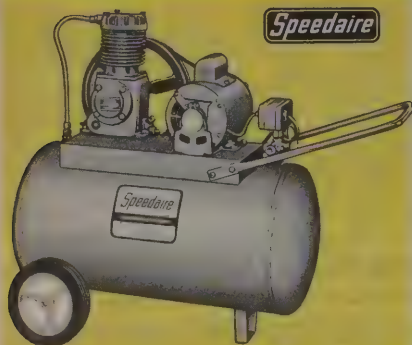
Quantity motor prices are available on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs

can be shipped from local Grainger stocks as required. Carloads kept in Chicago Distribution Center. Ask your Grainger salesman.

SEE WARRANTY INFORMATION ON PAGE 684

1/2 & 3/4 HP, 12 GAL. PORTABLE COMPRESSORS

2.64 to 4.1 CFM Displ. 1.7 to 2.5 CFM Free Air at 80 PSI. Dayton Capacitor Motor



\$146.26

1/2 HP Unit

Versatile, widely used compressors for spray painting, insecticide spraying, and air service for grease guns, blow guns, light duty air tools, inflation, etc. For farm, factory, garage, workshop, service trades. Unit comes completely assembled ready to plug in for service—simply add crankcase oil.

Single-stage piston-type compressor pump features: cast iron crankcase; die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency, cooling and service life; Swedish steel reed-type valves; and bronze bearings. Splash lubrication. 12 gal. non-code steel tank, rated 165 PSI maximum pressure.

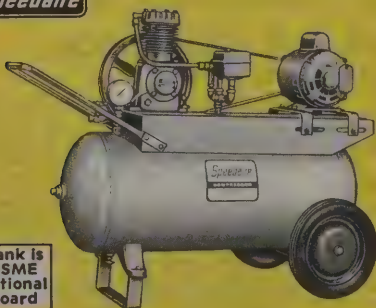
Powered by Dayton 115/230V, 60 Hz, 3450 RPM capacitor motor with sleeve bearings. Safety valve pre-set to release at 100 PSI. Pressure switch cuts in at 50 PSI and out at 80 PSI. 1/4" IPT manual shut-off valve at compressor outlet. 7 x 1.75" semi-pneumatic tires. Removable tubular steel handle. 8 ft. 16/3 grounded cord with molded plug. 1/2 HP model comes with 25 ft. air hose and tire air chuck. Gray enamel finish. Speedaire brand. Belt guards available, see Index under Guards, Belt Drive.

HP	Displ. CFM	Free Air CFM at 80 PSI	Bore	Stroke	Compressor RPM	Dimensions L W H	Stock No.	Retail	Each	Shpg. Wt.
1/2	2.64	1.70	1 3/4"	2"	950	32" 19 1/2" 31"	12910	\$244.00	\$146.26	80
3/4	4.10	2.50	2 1/8"	2"	860	32" 19" 30"	32124	264.00	158.59	87

3/4, 1 & 1-1/2 HP PORTABLE COMPRESSOR UNITS

3.1 to 8.0 CFM Displ., 1.9 to 4.2 CFM Free Air at 100 & 125 PSI. 15 Gallon ASME National Board Tank

Speedaire



Tank is ASME National Board

\$271.00

3/4 HP Unit

Easy portability in factories, garages, etc. — mounted on 10 x 1.75 semi-pneumatic wheels. No. 3Z160 is ideal for operating multiple nailing machines. Single-stage compressor features die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency in cooling and service life. Aluminum pistons. Swedish steel, reed-type valves. 15 gallon tank is ASME National Board—for details, see Index under Tanks, ASME Air. Safety valve set to release at 150 PSI. Air gauge. Load Genie combination unloader and check valve. Pressure switch set to cut in at 70 PSI and off at 100 PSI. No. 3Z160 is set for 95 PSI on, and 125 PSI off. 1/4" NPT shut-off cock at tank outlet. 115/230V, 60 Hz. capacitor-start Dayton motor. No. 12980 has 12 ft. 16/3 grounded cord; No. 3Z225 and 3Z160 have 8 ft. 12/3 grounded cord. All cords have molded plugs. Overall dimensions, all units: 34 L x 18 W x 31" H. Green finish. Speedaire brand. Belt guards available, see Index under Guards, Belt Drive.

HP	Displ. CFM	CFM at Compressor 100 PSI	RPM	Cylinder(s)	Bore	Stroke	Stock No.	Retail	Each	Shpg. Wt.
3/4	3.10	1.90	600	1	2 1/8"	2"	12980	\$452.00	\$271.00	145
1	5.30	3.18	515	2	2 1/8"	2"	3Z225	612.00	336.81	168
1 1/2	8.00	4.20*	780	2	2 1/8"	2"	3Z160	626.00	375.63	188

(*) CFM shown is for 125 PSI.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

GEARMOTORS—BIG IN-STOCK LINE AVAILABLE FROM GRAINGER'S

Call Grainger first for your gearmotor needs—get just what you need from our large diversified stock. Dayton line includes over 90 in-line and right-angle gearmotors with outputs of 1 to 288



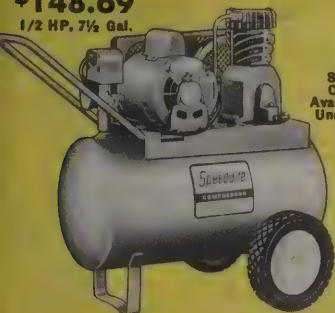
RPM, and 1/400 to 3-HP input—shaded pole, AC-DC, permanent magnet DC, split phase, capacitor and 3-phase. For door openers, conveyors, mixers, other uses. See Index under Gearmotors.

1/2 THRU 2 HP PORTABLE COMPRESSORS

3.2 to 10.5 CFM Displ. 1.9 to 6.2 CFM Free Air at 100 PSI. 7 1/2, 12 & 20 Gal. 1 & 2-Cylinder

\$148.69

1/2 HP, 7 1/2 Gal.



Stationary Tank
Conversion Kits
Available—See Index
Under Air Comp. &
Accessories

Belt
Guards
Included

Speedaire

\$227.89

1 HP, 20 Gal.



ugged compressor for industrial plants, building contractors, automotive garages, service stations, maintenance departments, emergency repair crews, etc. For operating air tools and blasters, spraying—many industrial, commercial, farm and home applications. Belt guards included on all models. 20 gallon models have large 10" wheels & convenient pull handle. 8" wheels on 7 1/2 and 12 gallon models. Cast iron pump has aluminum head, Swedish steel reed valves, balanced ductile iron crankshaft, fan-type flywheel, and needle roller bearings. Load

Genie combination unloader/check valve provides positive, easy starting. Completely automatic operation: Pressure switch is set to start at 70 PSI and turn off at 100 PSI on 1/2 thru 1 HP models; 105 PSI on and 125 PSI off on 1 1/2 thru 2 HP models. Has pressure gauge, shut-off valve, and safety valve. 8 ft. 12/3, 14/3 or 16/3 grounded cord with molded plug. Powered by open dripproof Dayton capacitor-start 3450 RPM, 60 Hz motor with manual reset thermal protection. Gray enamel finish. Comes completely assembled. Speedaire brand.

HP	Tank Gal.	CFM at		Volts 60 Hz	Cyl.	Bore	Stroke	Pump RPM	L	Dimensions		Stock No.	Retail	Each	Shpg. Wt.
		Displ. CFM	100 PSI							W	H				
1/2	7 1/2	3.2	1.9	115	1	2 3/4"	1 1/2"	740	26 3/4"	14 5/8"	24 5/8"	3Z322	\$248.00	\$148.69	81
1/2	12	3.2	1.9	115	1	2 3/4"	1 1/2"	740	27 1/2"	17 1/8"	26 3/8"	3Z427	262.00	156.83	95
1/2	12	3.7	2.2	115	1	2 3/4"	1 1/2"	930	27 1/2"	17 1/8"	26 3/8"	3Z394	269.00	162.37	91
1	20	7.6	4.9	115/230	2	2 3/4"	1 1/2"	550	33	19 5/8"	31 3/4"	3Z323	383.00	227.89	154
1 1/2	20	8.6	5.4	115/230	2	2 3/4"	2	690	33	19 5/8"	31 3/4"	3Z395	426.00	254.71	157
2	20	10.5	6.2	115/230	2	2 3/4"	2	750	33	19 5/8"	31 3/4"	3Z355	462.00	276.54	156

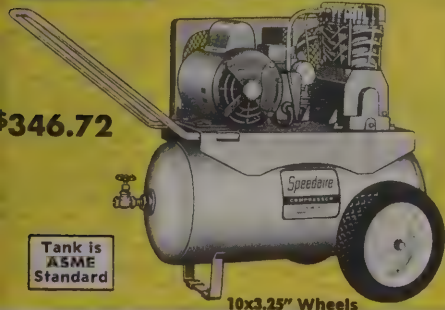
2 HP LOW-PROFILE PORTABLE COMPRESSOR

7 1/2 Gal. ASME Tank. 10.5 Displacement CFM. 5.8 CFM Free Air at 125 PSI

Control Center

Speedaire

Belt Guard Included



\$346.72

Tank is
ASME
Standard

10x3.25" Wheels

Low-profile, heavy duty design provides contractors with performance and portability. Fits easily into station wagons or other vehicles. For operating multiple nailing machines, tackers, air tools, paint sprayers, etc. Twin-cylinder pump features cast iron block, aluminum head, needle roller bearings, Swedish steel reed valves, and balanced fan-type flywheel. 2 3/4" bore x 2" stroke. 10.5 CFM displacement. 5.8 CFM free air at 125 PSI. 7 1/2 gal. tank is ASME Standard with rugged front stand and extra-wide 10 x 3.25" wheels for better handling in sand, gravel, rough terrain. Other quality features: control center, ASME safety valve, belt guard for safety, unloader-type pressure switch set for 105 PSI on, 125 PSI off, chrome plated copper tubing, and non-skid rubber shock absorbers. Powered by Dayton 2 HP, 3450 RPM capacitor-start, 115/230V, 60 Hz motor with manual reset thermal protection, 8 ft. 12/3, 14/3 or 16/3 grounded cord with molded plug. 27 L x 20 W x 27" H. Speedaire brand. Shpg. wt. 152 lbs.

No. 3Z428. 2 HP Compressor. Retail \$578.00. Each...**\$346.72**

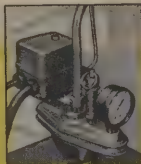
AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

SEE WARRANTY INFORMATION ON PAGE 684

411

3/4 TO 2 HP, 12 & 20 GAL. PORTABLE COMPRESSORS

3.7 to 10.5 CFM Displ. 2.2 to 6.2 CFM Free Air at 100 PSI
Single and Twin-Cylinder Models. ASME Standard Tank



Control
Center

Speedaire

Stationary Tank
Conversion
Kits Available—
See Index Under
Air Comp. &
Accessories

\$224.80

3/4 HP, 12 Gal.

Versatile, economical Speedaire portable compressors for industrial, commercial, farm and home applications. For use with multiple nailing machines, tackers, air tools, paint sprayers, tire inflating, contractor and maintenance jobs. Single-stage 1 and 2-cylinder compressor pumps, cast iron block and crankcase assembly, aluminum head, Swedish steel reed valves, needle roller bearings splash lubrication, fan-type flywheel.

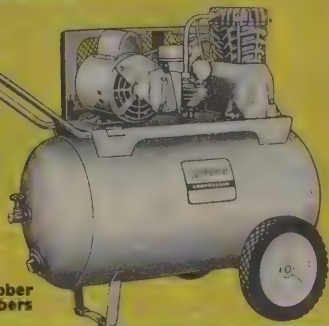
Finned cast iron manifold control center features unloader type pressure switch, check valve, ASME safety valve and pressure gauge. Pressure switch set for 80 PSI on, 100 PSI off for 3/4 and 1 HP models; 105/125 PSI for 1½ and 2 HP models.

Mounted on 12 or 20 gal. ASME Standard tank—for details see Index under Tanks, ASME Air. 10 x 1.75" semi-pneumatic tires. Includes factory-mounted belt guard, chrome plated copper tubing, convenient pull handle, and non-skid rubber shock absorbers. Powered by Dayton 3450 RPM capacitor start 60 Hz motor with manual reset thermal protection. 8 ft. 12/3, 14/3 or 16/3 grounded cord with molded plug. Metallic green finish. Designed and built to rigid quality standards.

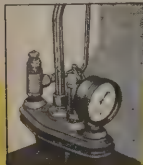
Belt
Guard
Included

Tank is
ASME
Standard

Non-Skid Rubber
Shock Absorbers



HP	Displ. CFM	CFM at 100 PSI	Tank Gal.	No. Cyl.	Volts 60 Hz	L	Dimensions W H	Stock No.	Retail	Each	Shpg. Wt.
3/4	3.7	2.2	12	1	115	28 7/8"	18 1/8" 28 1/2"	32405	\$375.00	\$224.80	110
1	7.6	4.9	20	2	115/230	32 5/8"	19 1/4" 33 1/2"	32408	498.00	297.82	166
1½	8.6	5.4	20	2	115/230	32 5/8"	19 1/4" 33 1/2"	32407	539.00	322.85	160
2	10.5	6.2	20	2	115/230	32 5/8"	19 1/4" 33 1/2"	32419	546.00	326.02	150



1½ HP, 20 GAL. PORTABLE COMPRESSOR

8.6 CFM Displ. 5.4 CFM Free Air at 100 PSI. 20 Gal. ASME Tank. Constant Speed

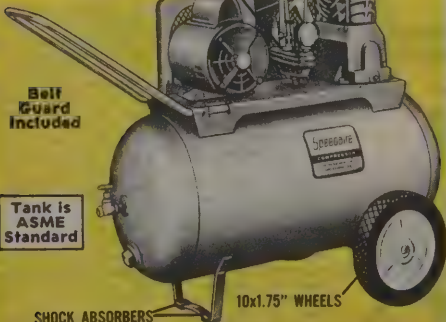
\$332.57

Heavy duty portable compressor designed for contractor use. High performance with constant speed unloader makes this unit ideal for most multiple nailing machines and tackers. Also suited for rough construction work, painting contractors, builders and industrial plants. 8.6 CFM displ. Delivers 5.4 CFM free air at 100 PSI. Twin-cylinder cast iron pump block with aluminum head. 2 3/4" bore x 2" stroke. Needle roller bearings, balanced ductile iron crankshaft, Swedish steel reed valves splash lubrication and balanced fan-type cast flywheel. Factory-mounted belt guard included.

Finned cast iron manifold control center (see inset) features brass unloader pilot valve, check valve, ASME safety valve and pressure gauge. Unloader set to 100/110 PSI. 20 gallon tank is ASME Standard—for details see Index under Tanks, ASME Air. 10 x 1.75" semi-pneumatic tires. Powered by 1½ HP, 3450 RPM Dayton capacitor-start, ball bearing, 115/230V. 6 Hz motor. 8 ft. 12/3 grounded cord with molded plug. Metallic green finish. 36 1/2" L 22 5/8" W, 35 1/4" H overall. Shpg. wt. 173 lb. No. 32396. 1½ HP Portable Compressor. Retail \$556.00. Each \$332.57

CHROMED COPPER TUBING & FITTINGS

CONTROL CENTER



Belt
Guard
Included

Tank is
ASME
Standard

SHOCK ABSORBERS

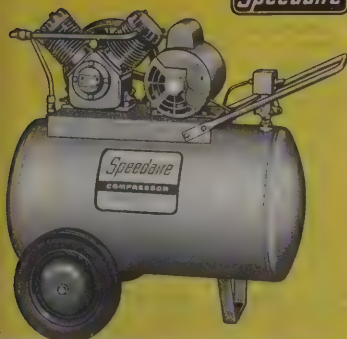
10x1.75" WHEELS

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

Over 500 Most Widely-Used Fan and Blower Types are Stocked at Grainger's
Call Us For Regular and Emergency Needs — Rely on Immediate Delivery

1 & 1½ HP MOBILE TWIN-CYLINDER COMPRESSORS

Speedaire



5.3 to 7.29 CFM Displ. 3.2 to 4.02 CFM at 100 PSI
20 Gal. Tank. 115/230V Dayton Capacitor Motors

\$256.34

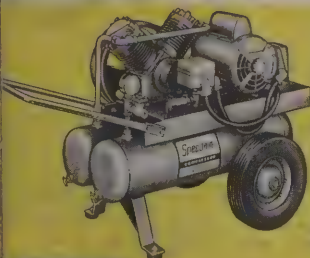
1 HP

Low priced, portable twin-cylinder compressors for industrial, farm and home applications. Handles paint sprayers, nailers, air tools, tire inflation, contractor and maintenance jobs. Twin-cylinder single-stage compressor pumps with 2½" bore, 2" stroke and 10½" cast iron fan-type flywheel. Powerful Dayton capacitor-start ball bearing, 115/230V, 60 Hz motor, 8 ft. 16/3 grounded cord with molded plug. Pressure switch is set for 70 PSI on and 100 PSI off. Other quality features include combination unloader and check valve, 200 PSI pressure gauge, shut-off valve and safety valve. Large 20 gallon non-code steel tank with 10 x 1.75" semi-pneumatic tires and convenient pull handle. Automatic start/stop operation. Gray enamel finish. Speedaire brand. Belt guards available, see Index under Guards, Belt Drive.

HP	Displ. CFM	CFM at 100 PSI	Stock No.	Retail	Each	Shpg. Wt.
1	5.3	3.2	3Z363	\$427.00	\$256.34	130
1½	7.29	4.02	3Z161	476.00	285.77	137

2 HP TWIN-TANK PORTABLE COMPRESSOR

0.5 CFM Displ. 7.5 CFM at 50 PSI, 5.8 at 125 PSI. Twin 3 Gal. Tanks. Low Center of Gravity. 115/230V



\$367.89

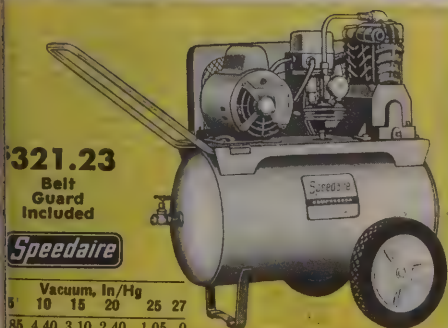
No. 3Z319

Twin-tank design provides low profile, low center of gravity, and fast, easy portability. Large 10 x 2.75" semi-pneumatic wheels and heavy pull-handle. Perfectly suited for operating multiple nailing machines, for tradesmen, contractors, farmers, garage operators, and factory use. Delivers 7.5 CFM free air at 50 PSI, 6.5 CFM at 90 PSI, 5.8 CFM at 125 PSI; 10.5 CFM displ. Twin-cylinder, single-stage compressor pump has die cast aluminum cylinders, aluminum pistons, Swedish steel reed-type valves, and cast iron fan-type flywheel. 2½" bore, 2" stroke, 775 RPM. Two, 3 gal. non-code tanks. Safety valve set for 150 PSI. Complete with Load Genie combination unloader and check valve. Pressure switch set at 95 PSI on and 125 PSI off. 200 PSI pressure gauge. 2 HP, single-phase, 115/230V, 60 Hz Dayton capacitor motor. 3/8" NPT drain cock. 8 ft., 12/3 grounded cord with molded plug. Gray finish. Speedaire brand. Belt guards available on special order, at extra cost. Order from nearest Grainger location for fastest service. Shpg. wt. 157 lbs.

No. 3Z319. Retail \$613.00. Each **\$367.89**

1 HP TWIN-CYLINDER VACUUM OUTFIT

Pulls Up To 27" Hg. 8.3 CFM Displ.
1.05 CFM at 25" Hg. 12 Gal. Tank



\$321.23

Belt
Guard
Included

Speedaire

Vacuum, in/Hg	5	10	15	20	25	27
	85	4.40	3.10	2.40	1.05	0

Self-contained vacuum outfit for hospitals, photo processing equipment, printing and packaging machines, vacuum bench tools, and material handling equipment. Twin-cylinder, single-stage pump with needle roller bearings, Swedish steel reed valves, balanced crankshaft, and fan-type flywheel. 2½" bore x 2" stroke. Finned manifold control center with automatic vacuum switch, vacuum gauge, and check valve. 12 gal. non-code tank, 10 x 1.75" wheels, convenient pull handle, factory-mounted belt guard and non-skid rubber shock absorbers. Powered by Dayton 1 HP, 115/230V, 60 Hz capacitor motor with manual reset overload protection. 8 ft. 14/3 grounded cord. Gray enamel finish. 33 L x 19 W x 31" H. Speedaire brand. Shpg. wt. 143 lbs.

No. 3Z432. 1 HP Vacuum Outfit. Retail \$537.00. Each **\$321.23**

FREIGHT PREPAID on all shipments of 300 lbs. and over, unless otherwise stated.
See Sales Policy in Index for full details.
Shipment from nearest Grainger Sales Office/Warehouse, routing our choice.

SEE WARRANTY INFORMATION ON PAGE 684

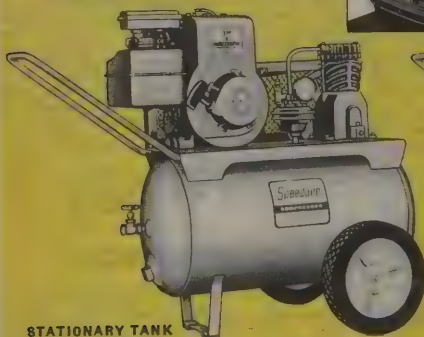
3 & 4 HP ENGINE-DRIVEN ASME COMPRESSORS

3.7 to 10.5 Displ. 2.2 to 7.1 CFM Free Air. 1 & 2-Cylinder. Briggs & Stratton Engine

Speedaire

\$303.65

1-Cylinder
No. 32429



STATIONARY TANK
CONVERSION KIT
AVAILABLE—SEE INDEX
UNDER AIR
COMP. & ACCESSORIES

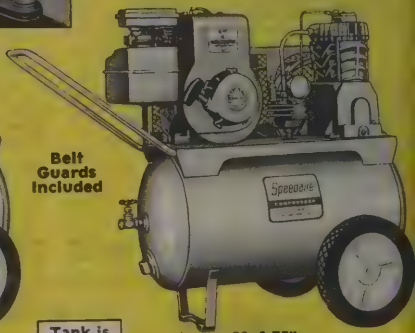
Non-Skid Rubber
Shock Absorbers



Control Center
With Chromed Copper
Tubing & Fittings

\$365.67

2-Cylinder
No. 32430



Belt
Guards
Included

Tank is
ASME
Standard

10x1.75"
Wheels

Speedaire single and twin-cylinder compressors for multiple nailers, tackers, air tools, crop spraying, contractors, and service stations. Powerful engine-driven units feature a constant speed unloader control set at 100/110 PSI. 12 gal. tank is ASME Standard—for details, see Index under Tanks, ASME Air. Single-stage, cast iron pump has needle roller bearings, Swedish steel reed valves, balanced crankshaft, and fan-type

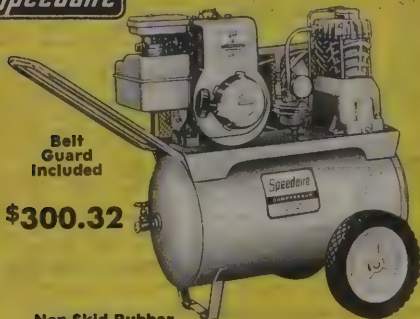
flywheel. Factory-mounted belt guards included. Top quality features include finned manifold control center, chrome plated copper tubing, non-skid rubber shock absorbers, 10 x 1.75" wheels, and convenient pull handle. Powered by Briggs & Stratton 4 cycle gas engines with "L" head aluminum alloy construction. Pulsation-jet carburetor, easy-spin recoil starter, and 3 quart fuel tank. Metallic green finish.

HP	Displ. CFM	CFM at 100 PSI	Tank Gal.	No. Cyl.	Bore	Stroke	Dimensions L W H	Stock No.	Retail	Each	Shps Wt.
3	3.7	2.2	12	1	2 3/4"	1 1/2"	33" 19" 31"	32429	\$510.00	\$303.65	12
4	10.5	7.1	12	2	2 3/4"	2"	33" 19" 32"	32430	613.00	365.67	14

4 HP ENGINE-DRIVEN, 10.5 CFM COMPRESSOR

4-HP, 4 Cy. Briggs & Stratton Engine. 12 Gal. Tank. Twin-Cylinder. 100 PSI

Speedaire



Belt
Guard
Included

\$300.32

Non-Skid Rubber
Shock Absorbers

Powerful engine-driven portable air compressor for job-site applications where electricity is not available. High performance unit has constant speed unloader for most multiple nailing machines, crop and fruit spraying, building and painting contractors, service stations. Factory mounted belt guard included. Twin-cylinder single-stage cast iron pump block with aluminum head, 2 3/4" bore x 2" stroke. Balanced ductile iron crankshaft with splash lubrication, Swedish steel reed valves, needle roller bearings, balanced fan-type cast flywheel. 10.5 CFM displacement 1.1 CFM free air at 100 PSI.

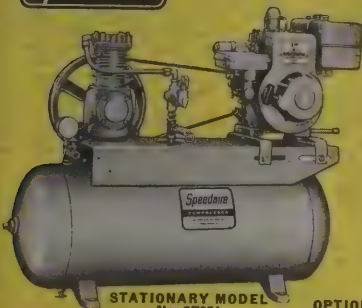
Powered by 4 HP Briggs & Stratton cycle gas engine with "L" head aluminum alloy construction. Pressure control governor set for 100 PSI on, 110 PSI off. Pulsation-jet carburetor, recoil starter, 3 qt. gas line tank. 12 gallon non-code steel tank with 10 x 1.75" semi-pneumatic tires and convenient pull handle. 3 3/4" L, 19 1/2" H. Gray enamel finish. Wt. 137 lb. No. 32408. 4 HP Engine-Driven Portable Compressor. Retail \$502.00. Each.....\$300.32

3 HP ENGINE-DRIVEN, 4.23 CFM COMPRESSORS

Briggs & Stratton Engine. 15 gallon ASME National Board Tank. 1-Cylinder, Single-Stage, 100 PSI

Speedaire

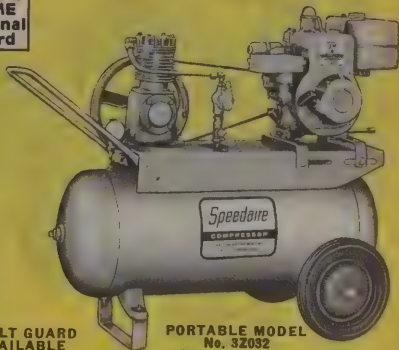
Tank is
ASME
National
Board



STATIONARY MODEL
No. 3Z031

\$322.47

OPTIONAL BELT GUARD
No. 2Z501 AVAILABLE
SEE INDEX UNDER
GUARDS, BELT DRIVE



PORTABLE MODEL
No. 3Z032

\$298.66

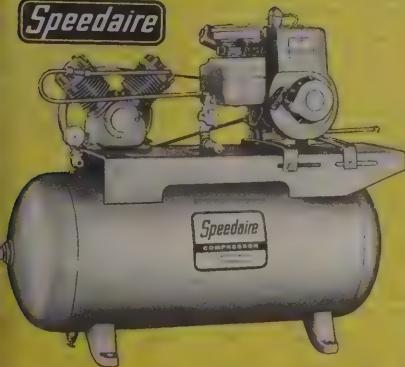
handles air jobs where electricity is not available—crop and fruit spraying, paint spraying, tire inflation, air power tools, etc. Easily portable anywhere. Single-stage heavy duty compressor with reed-type valves. 2 3/4" bore x 2" stroke, rated 4.23 CFM displ. at 825 RPM. Delivers 2.6 CFM free air at 100 PSI. Equipped with engine constant speed unloader control which permits constant speed operation without shutdown or throttling back engine, and tank pressure is maintained. 15 gal. tank is ASME National Board—for details, see Index under tanks, ASME Air. Special ASME safety valve set for release at 150 PSI. Powered by Briggs & Stratton, 3 HP, 4 cycle gas engine with L-head

aluminum alloy construction. Pneumatic speed controlled governor. Flo-Jet carburetor. Recoil-type starter. Operates on regular gas—3 qt. gas tank. Air gauge. Stationary model easily mounted on skids for portability. No. 3Z032 rides on 10 x 1.75" semi-pneumatic rubber tires and has steel-tube handle. Speedaire brand. Green enamel finish. Belt guards available; see Index under Guards, Belt Drive. Supplied completely assembled, ready to operate.

Type	L	H	W	Stock No.	Retail	Each	Shpg. Wt.
Stationary	38"	31"	13"	3Z031	\$496.00	\$322.47	139
Portable	38"	36"	19"	3Z032	498.00	298.66	148

4 HP ENGINE-DRIVEN, 6.8 CFM COMPRESSOR

Speedaire



\$494.17

With Engine

Powerful compressor for farm or job-site use delivers steady air flow for crop and fruit spraying, air power tools, paint spraying, lubrication, etc. Delivers 4.1 CFM free air at 100 PSI, 665 RPM. Single-stage compressor pump features die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency, cooling and service life. Swedish steel reed-type valves, aluminum pistons, and roller main bearings. 2 3/4" bore, 2" stroke. Splash-type lubrication. 10 1/2" OD fan-type flywheel. 2 3/4" OD driver pulley.

30 gal. tank is ASME National Board—for details, see Index under Tanks, ASME Air. 150 PSI ASME safety valve. Pressure gauge. Genie constant speed unloader control maintains tank pressure without need for engine shutdown or frequent speed adjustment when subject to intermittent air usage. Powered by 4 HP, L-head Briggs & Stratton 4 cycle gasoline engine with mechanical speed control governor, recoil starter. 3 qt. gasoline tank, 43 1/2" L, 18" W, 36" H overall. Metallic green finish. Belt guard available; see Index under Guards, Belt Drive. Shpg. wt. 278 lbs.

Tank is
ASME
National
Board

COMPRESSOR OUTPUT RATINGS

	50	75	100	125
Tank PSI	50	75	100	125
Pump RPM	670	670	665	660
CFM Displ.	6.9	6.9	6.8	6.8
CFM Free Air	5.1	4.5	4.1	3.5

No. 3Z097. 4 HP. Engine-Driven Compressor.
Retail \$760.00. Each.....\$494.17

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

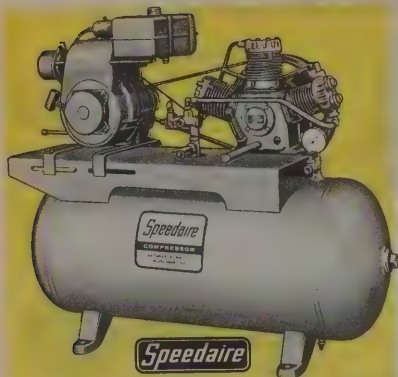
SEE WARRANTY INFORMATION ON PAGE 684

6 HP, ENGINE-DRIVEN, 9.8 CFM COMPRESSOR

3-Cylinder, 175 PSI, 2-Stage, 9.8 CFM Displacement

\$637.02

**Tank is
ASME
National
Board**



Built for many heavy duty air jobs where electricity is not available on construction jobs, farms, nailing and other air power tools, insect and paint spraying, etc. This 2-stage Speedaire compressor features new 3-cyl. design with die cast aluminum casting permanently bonded to cast iron liner—for cooler operation, greater efficiency and service life. Aluminum heads, cast iron crankcase. Splash type lubrication. Taper roller main bearing. 2½, 2½ & 1¾" bores, 2" strokes. Finned inter-cooler. Visual oil level gauge. 12½" fan-type flywheel. Compressor has Mark II Load Genie constant speed unloader control.

Reliable Tecumseh gas engine develops 6 HP at 3600 RPM; 4 cycle, aluminum alloy construction. Accurate mechanical governor. Recoil starter. 1 gal. gas tank operates 2 hours at full speed. Has gas-saving throttle control—engine automatically idles when pump is unloading. Mounted on 30 gal. ASME National Board tank—for details see Index under Tanks, ASME Air. 300 PSI air gauge. 200 PSI ASME standard safety valve. ½" NPT outlet. Green enamel finish, black engine. 44 L x 18 W x 36" H. Belt guards available on special order, at extra cost. Order from nearest Grainger location for fastest shpg. service. Shpg. wt. 267 lbs.

No. 3Z162, 6 HP, Engine-Driven, Compressor, Retail \$980.00. Each.....\$637.02

9.2 HP ENGINE-DRIVEN, 23 CFM COMPRESSORS

2-Stage, 175 PSI, Twin-Cylinder, 23 CFM Displacement. Constant Speed

30 Gal. Tank is ASME National Board. 9.2 HP 4 Cycle Wisconsin Gas Engine, Rope or 12V Start

12 VOLT STARTER ON NO. 3Z040

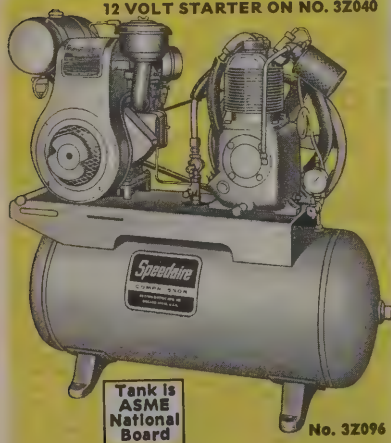
\$1061.31

Freight Prepaid
No. 3Z096

Two-stage, 2-cylinder, rugged-duty engine-driven Speedaire compressors have automatic engine throttle for economy and long service life. Built for general service work—crop spraying, paint spraying, pneumatic tools 23 CFM displacement at 785 RPM.

4½" & 2½" bores by 3" strokes. Taper main bearings. Die cast aluminum connecting rods. Splash lubrication. Cast, fan-type flywheel, 16½" dia. Finned intercooler. ASME 200 PSI safety valve. 300 PSI air gauge. Compressor has constant speed unloader feature with automatic pilot valve. When tank reaches set pressure (170 PSI) unit continues to run, but both engine and compressor drop to idle speed, saving fuel and engine wear. A drop of approx. 30 PSI due to air usage, actuates pilot valve, and engine resumes normal speed and pumping function. 30 gal. tank is ASME National Board—for tank specifications, see Index under Tanks, ASME Air.

Powered by 9.2 HP (at 4300 RPM) 4 cycle, heavy duty, air cooled Wisconsin gas engine, mode AENLD. 3" bore and 3½" stroke, 23 cu. in. piston displacement. L-head construction, Stellite valves tapered roller bearings. Weather-sealed magnets for quick starts. Oil bath air cleaner, 1.7 gal. gas tank uses regular gas. 44 L x 42½ H x 19½ W. Belt guards available, see Index under Guards. Belt Drive.



No. 3Z096

Tank PSI	Pump RPM	Displ. CFM	Free Air CFM
150	785	23.0	17.6
175	780	22.8	17.3

HP	Type Start	Stock No.	Retail	Each Freight Ppd.	Shpg. Wt.
9.2	Rope	3Z096	\$1632.00	\$1061.31	410
9.2	12 Volt†	3Z040	1909.00	1240.73	439

(†) Battery not included.

PREPAID FREIGHT on all shipments of 300 lbs. and over unless otherwise stated
See Sales Policy in Index for full details

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

1 & 2 HP, 30 GAL. SINGLE-STAGE COMPRESSORS

7.6 to 10.5 CFM Displ. 4.9 to 6.2 CFM Free Air. Twin-Cylinder Pumps
Horizontal or Vertical ASME Standard Tanks. Single & 3-Phase Dayton 3450 RPM Motors

- Self-Cleaning Swedish Steel Valves
- Balanced Ductile-Iron Crankshaft
- Splash-Type Lubrication
- Needle Roller Bearings

Speedaire

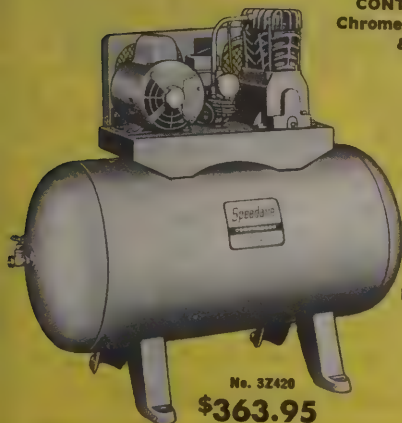


CONTROL CENTER
Chromed Copper Tubing
& Fittings



Tank Is
ASME
Standard

Factory-Mounted
Belt Guards
Included



No. 3Z420
\$363.95
1 HP, 1-Phase

No. 3Z423
\$363.28
1 HP, 1-Phase

Heavy duty Speedaire compressors for industrial, commercial, contractor, and service station applications. Provide high performance operation of air tools, paint sprayers, sand blasting equipment, multiple nailers, tackers, lease guns and inflation equipment. Single-stage twin-cylinder pump with cast iron block and crankcase, aluminum head, 2 3/4" bore x 2" stroke, Swedish steel reed valves, needle roller bearings, splash lubrication and fan-type flywheel. Finned cast iron manifold control center (inset) with ASME safety relief valve, pressure gauge, check valve, and unloader-type pressure switch. Corrosion-resistant chromed copper tubing. Pressure switch setting for 1 HP models is 80 PSI on and 100 PSI off;

for 2 HP models, 105/125 PSI. 30 gal. tanks are ASME Standard. Vertical tank units are designed for applications and areas where floor space is limited. All units are powered by Dayton 3450 RPM capacitor start motors with thermal protection or 3450 RPM 3-phase motors. Designed and built to rigid quality standards. Attractive metallic green finish. Factory-mounted belt guards are included.

COMPRESSOR DIMENSIONS

Tank Style	Long	Wide	High
Horizontal (All Models)	40 3/4"	21 3/4"	38 3/4"
Vertical (All Models)	26 1/4"	21 1/4"	54 3/8"

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter

Displ. CFM	CFM at 100 PSI	Pump RPM	Motor Included Type	Volts 60 Hz	Stock No.	Retail	Each	Shpg. Wt.
30 GAL. HORIZONTAL ASME STANDARD TANK MODELS								
7.6	4.9	550	1-Ph.	115/230	3Z420	\$610.00	\$363.95	189
10.5	6.2	750	1-Ph.	115/230	3Z421	641.00	381.62	189
10.5	6.2	750	3-Ph.	230/460	3Z422	682.00	406.78	194
30 GAL. VERTICAL ASME STANDARD TANK MODELS								
7.6	4.9	550	1-Ph.	115/230	3Z423	\$610.00	\$363.28	181
10.5	6.2	750	1-Ph.	115/230	3Z424	641.00	381.78	191
10.5	6.2	750	3-Ph.	230/460	3Z425	682.00	406.78	182

Complete With Magnetic Starter

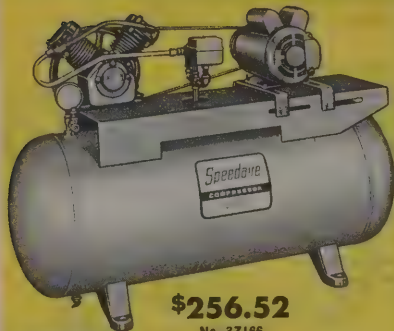
Stock No.	Retail	Each	Shpg. Wt.
7Z425	\$678.00	\$413.44	196
7Z426	709.00	431.11	196
7Z427	763.00	465.46	202
7Z428	\$678.00	\$411.77	197
7Z429	709.00	431.27	198
7Z430	763.00	464.46	190

Single phase starters are 115V or 230V. Three phase are for 220-230 or 440-460V. Specify voltage used.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

SEE WARRANTY INFORMATION ON PAGE 684

3/4, 1 & 2 HP SINGLE-STAGE COMPRESSORS



Speedaire

\$256.52

No. 3Z166
Less Motor

4.17 to 10.5 CFM Displ. 50 to 125 PSI

30 Gal. Tank. Choice of Single or 3-Phase Motors

Speedaire compressor units (less motor) for lubrication, paint spraying, nailing machines, etc. V-type design with aluminum outer cylinder integrally cast to cast iron liner, for cooler, more efficient operation. Cast iron crankcase, reed-type valves. Roller main bearings. 10 1/4" fan-type flywheel. 30 gal, 16 x 40", non-code tank. Automatic pressure switch adjustable to 125 PSI cut out. Relief valve, pressure gauge and combination unloader & check valve. 1/4" NPT outlet. 4 L, 16 W, 30" H. Gray enamel finish. Belt guards available, see Index under Guards, Belt Drive.

No. 3Z166 has 1 1/4" bore, 2" stroke. Pressure switch set to cut-in at 70 PSI and out at 100 PSI. "A" belt included. Uses 1 HP motor (maximum).

No. 3Z189 has 2 5/8" bore, 2" stroke. Pressure switch set to cut-in at 95 PSI and out at 125 PSI. 2 "A" belts included. Uses 2 HP motor.

Max. HP	Stock No.	—Less Motor— Retail	Each	Shpg. Wt.
1	3Z166	\$395.00	\$256.52	176
2	3Z189	417.00	271.12	196

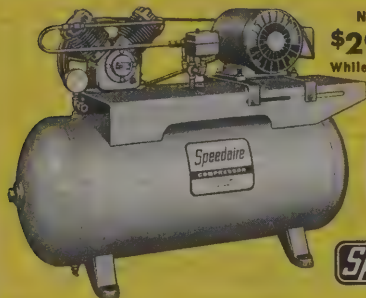
COMPLETE COMPRESSOR-MOTOR UNIT—PERFORMANCE & PRICE DATA

HP	Compressor No.	Displ. CFM	CFM at 125 PSI	Pump RPM	Motor Type	Included* Volts, 60 Hz	Stock No.	Retail	Each	Shpg. Wt.
3/4	3Z166	4.17	2.25	750	1-Ph	115/230	7Z303	\$486.28	\$314.62	202
3/4					3-Ph	208-220/440	7Z304	500.53	323.95	201
1	3Z166	4.73	2.55	850	1-Ph	115/230	7Z306	568.97	337.49	209
1					3-Ph	208-220/440	7Z307	537.97	323.13	204
2	3Z189	10.5	5.8	775	1-Ph	115/230	7Z301	618.55	398.05	242
2					3-Ph	208-220/440	7Z302	603.38	357.77	235

(*) Motors are Dayton ball bearing (except 3/4 HP, single-phase). Single-phase are capacitor-start.

3/4 & 1 HP SINGLE-STAGE COMPRESSORS

1 & 2-Cylinders. 30 Gal. ASME National Board Tank. 150 PSI Safety Valve. 300 PSI Air Gauge



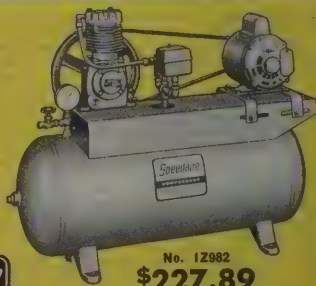
No. 1Z992

\$299.45

While Stocks Last

Tank is
ASME
National
Board

Speedaire



No. 1Z982

\$227.89

While Stocks Last

Speedaire compressor units with motor. For lubrication, paint spraying, small air tools. Feature aluminum cylinders integrally cast to iron alloy sleeves for cooler, more efficient operation. Swedish steel reed-type valves. 30 gal. ASME National Board tank; for details, see Index under Tanks, ASME Air. Combination unloader and

check valve. No. 1Z982 has 3/4 HP, 3450 RPM Dayton capacitor-start motor. No. 1Z992 has HP, 3450 RPM, 3-phase motor. Pressure switch set at 80 PSI on and 100 PSI off on 3/4 HP unit and 70 PSI on, 100 PSI off on 1 HP unit. Be guards available, see Index under Guards, Belt Drive. Green finish.

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter

HP	Displ. CFM	CFM at 100 PSI	PUMP RPM	Cyl.	Motor Volts 60 Hz	Stock No.	Retail	While Stocks Last	Shpg. Wt.	Stock No.	Retail	While Stocks Last	Shpg. Wt.
3/4	3.1	1.90	600	1	115/230	1Z982	\$147.00	\$227.89	189				
1	5.3	3.2	515	2	208-220/440	1Z992	604.00	299.45	219	7Z120	\$671.00	\$347.91	22

COMPLETE WITH MAGNETIC STARTER

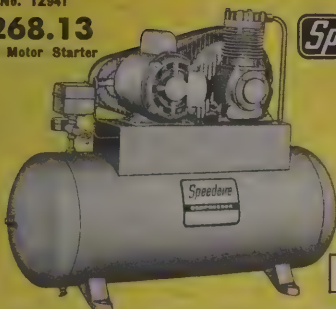
1/2 to 3 HP, SINGLE-STAGE COMPRESSORS

2.1 to 7.9 CFM Free Air @ 100 PSI. ASME Nat. Board Tank

No. 1Z941

\$268.13

Less Motor Starter



Speedaire

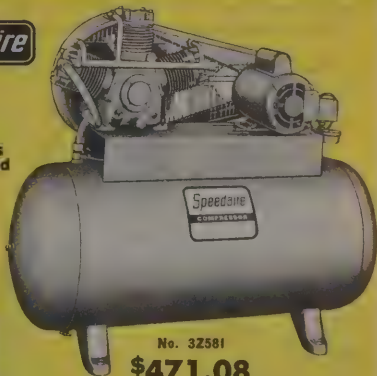
Belt
Guards
Included

NEW

Tank is
ASME
National
Board



1/2 & 3/4 HP units use
1-cylinder pumps, 1 to
2 HP units 2-cylinder
pumps and 3 HP units
3-cylinder pumps.



No. 3Z581

\$471.08

Less Motor Starter

For Commercial and Light Industrial Applications that include spray painting, inflation, blow-off cleaning, air tool, air cylinder and small machine operations. Designed for a typical duty cycle of intermittent use during an 8 hour workday, 5 to 6 days a week.

The Cast Aluminum Cylinders are integrally cast to iron alloy sleeve for greater efficiency, cooling and service life. Single-stage pump also incorporates aluminum pistons and connecting rods, welded steel reed-type valves, splash type lubrication, and visual oil level gauge. 3/4" IPT discharge on all except the 3-cylinder pump which is 1/2" IPT.

Dynamically Balanced Fan-Type Flywheel provides air flow for cooling heads and includes factory installed belt guards.

Loadless Starts provided by pressure switch unloading on all units. Pressure switch settings of 70 PSI On, 100 PSI Off on 1/2 to 1 HP models; 95 PSI On, 125 PSI Off on 1 1/2 to 3 HP units.

ASME 1/4" Safety Valve vents tank if excess pressure builds up. All bronze 3/8" tank shut-off valve. 1/2" inlet check valves, except 3/4" on 3-cylinder compressors.

15 & 30 Gallon ASME National Board Tanks. For details, see Index under Tanks, ASME Air.

Dayton Open Dripproof, Capacitor-Start Motor. Rigid mount with NEMA 56 frame. CCW rotation facing shaft. To order with magnetic motor starter, see "7Z" combinations below.

Metallic Green Finish. Speedaire brand.

COMPRESSOR PERFORMANCE AND DIMENSION DATA

HP	Stock No.	Pump RPM @ 100 PSI	Displ. CFM	Free Air CFM* @ Tank PSI						Cyl.	Pump Bore	Stroke	Overall Dimensions, In Inches		
				20	40	60	80	100	125				Height	Width	Depth
1/2	1Z941	653	3.4	2.8	2.6	2.4	2.3	2.1	2.0	1	2 1/8"	2"	26 1/8	12 1/2	35 1/2
	3Z583	834	4.3	3.6	3.5	3.2	3.0	2.8	2.6	1	2 1/8"	2"	26 1/8	12 1/2	35 1/2
1	1Z991	670	6.9	5.8	5.3	4.8	4.4	4.1	3.9	2	2 1/8"	2"	31 1/2	19 1/2	43
1 1/2	3Z584	741	7.6	6.1	5.6	5.1	4.9	4.5	4.1	2	2 1/8"	2"	31 1/2	19 1/2	43
2	3Z188	705	8.8	7.4	6.9	6.4	6.0	5.7	5.4	2	2 1/8"	2"	31 1/2	19 1/2	43
2 1/2	3Z190	705	8.8	7.4	6.9	6.4	6.0	5.7	5.4	2	2 1/8"	2"	31 1/2	19 1/2	43
3	3Z581	659	12.4	10.2	9.5	8.8	8.3	7.9	7.2	3	2 1/8"	2"	33 3/8	19 1/2	43
3	3Z582	659	12.4	10.2	9.5	8.8	8.3	7.9	7.2	3	2 1/8"	2"	33 3/8	19 1/2	43

* Flow rate data determined in accordance with ASME power test codes.

COMPRESSOR MOTOR SPECIFICATIONS AND PRICES

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter									COMPLETE WITH MAGNETIC STARTER #				
HP	ASME —Motor— Tank Gal. Phase		Volts 60 Hz	Pressure Switch On Off		Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Retail	Each	Shpg. Wt.
1/2	15	1	115	70	100	12941	\$413.00	\$268.13	135	—	—	—	—
3/4	15	1	115	70	100	32583	418.00	271.53	138	—	—	—	—
1	30	1	115/230	70	100	12991	582.00	378.07	242	7Z119	\$650.00	\$427.56	246
1 1/2	30	1	115/230	95	125	32584	584.00	379.82	244	7Z540	652.00	429.31	253
2	30	1	115/230	95	125	32188	611.00	397.31	248	7Z308	679.00	446.80	245
2 1/2	30	3	230/460	95	125	32190	622.00	404.42	242	7Z309	689.00	452.88	243
3	30	1	115/230	95	125	32581	725.00	471.08	257	7Z541	803.00	527.87	266
3	30	3	230/460	95	125	32582	725.00	471.06	253	7Z542	806.00	529.74	262

Single phase starters are 115V or 230V. Three phase are for 230 or 460V. Specify voltage.

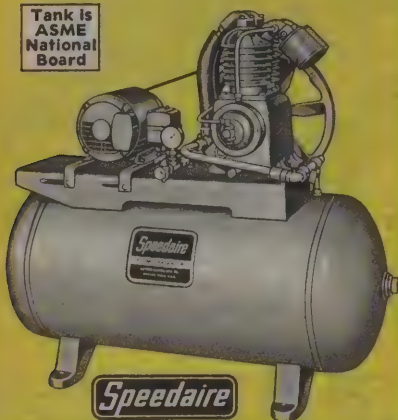
PREPAID FREIGHT on all shipments of 300 lbs. and over. See Sales Policy in Index for full details.

SEE WARRANTY INFORMATION ON PAGE 684

3 & 5 HP, 60 GAL. SINGLE-STAGE COMPRESSORS

Heavy Duty, 2-Cylinder Compressor Pump
16 & 27 CFM Displ., 100 PSI, Continuous Duty
Pressure Switch & Constant Speed Units

Tank is
ASME
National
Board



\$908.50

3 HP No. 32197
Freight Prepaid

Delivers large capacity at low or medium pressures up to 100 PSI continuous duty, 125 PSI intermittent. Built for operating air tools, pneumatics, painting, etc., also widely used in many car washes, laundries, dry cleaners, etc. Single stage, twin-cylinder compressors with centrifugal unloader for loadless starting. 3 3/4" bore x 3" stroke. Timken tapered roller main bearings. Cast iron crankcase, cylinder and integral head. Counter-balanced, ductile iron crankshaft and domed aluminum pistons. Visual oil level gauge. 16 1/2" diameter, dynamically balanced fan-type flywheel.

Complete with Dayton 3-phase or single phase motors, less motor starter. Also listed below with proper Dayton thermally protected magnetic starter. Adjustable motor rails. Mounted on 60 gal. tank that is ASME National Board for details, see Index under Tanks, ASME Air 200 PSI safety valve, 300 PSI gauge, 1/2" NP drain cocks, air outlet. Pressure switch control models, set to cut in at 80 PSI & out at 100 PSI. Prepaid freight on shipments of 300 lbs. and over. Belt Guards available, see Index under Guards, Belt Drive.

CONSTANT SPEED UNLOADER MODEL

Have same general construction features, but unloader permits unit to run continuously maintaining tank pressure within pre-set range—discharging excess air automatically. Recommended where air requirements are steady and exceed 50% of compressor output.

PREPAID FREIGHT on all units listed on this page. See Sales Policy in Index for details

PRESSURE SWITCH CONTROL COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter											COMPLETE WITH MAGNETIC STARTER (
HP	Displ. CFM	CFM at 100 PSI	Tank Gal.	Pump RPM	No. Cyl.	Motor Included Phase Volts 60 Hz	Stock No.	Less Motor Starter Retail	Each, Freight Ppd.	Shpg. Wt.	Stock No.	Retail	Each, Freight Prepaid
3	16	12.5	60	426	2	1-Ph. 115/230	3Z196	\$1476.00	\$959.18	475	7Z312	\$1554.00	\$1015.5
3	16	12.5	60	426	2	3-Ph. 230/460	3Z197	1398.00	908.50	480	7Z313	1479.00	967.3
5	27	22.0	60	727	2	1-Ph. 230	3Z198	1640.00	1065.59	495	7Z314	1740.00	1138.4
5	27	22.0	60	727	2	3-Ph. 230/460	3Z199	1428.00	927.75	473	7Z315	1519.00	993.7

CONSTANT SPEED UNLOADER COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter											COMPLETE WITH MAGNETIC STARTER (
HP	Displ. CFM	CFM at 100 PSI	Tank Gal.	Pump RPM	No. Cyl.	Motor Included Phase Volts 60 Hz	Stock No.	Less Motor Starter Retail	Each, Freight Ppd.	Shpg. Wt.	Stock No.	Retail	Each, Freight Prepaid
3	16	12.5	60	426	1-Ph.	115/230	3Z200	\$1591.00	\$1034.25	563	7Z316	\$1669.00	\$1091.0
3	16	12.5	60	426	3-Ph.	230/460	3Z201	1422.00	924.11	457	7Z317	1503.00	982.7
5	27	22.0	60	727	1-Ph.	230	3Z202	1665.00	1082.25	503	7Z318	1765.00	1155.1
5	27	22.0	60	727	3-Ph.	230/460	3Z203	1452.00	943.23	557	7Z319	1543.00	1009.2

(#) Single phase starters are for 230V. Three phase are for 230/460V. Specify which voltage is to be used.
(†) Compressor with 208V, 3-Phase motor available on special order at extra cost.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

COMPLETE LINE OF STEEL SHELVING & SHOP EQUIPMENT AVAILABLE THROUGH YOUR LOCAL GRAINGER SALES OFFICE/WAREHOUSE

Grainger carries in stock steel shelving, service carts, tool stands, work benches and other shop equipment most often asked for. In addition, we can supply your needs for any other item in our comprehensive line of material handling equipment—tell us your requirements.

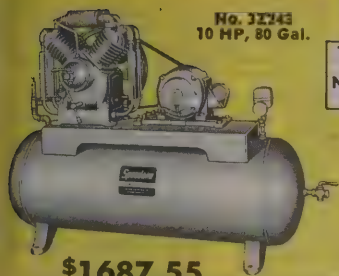
10 & 20 HP HIGH-VOLUME COMPRESSORS

Speedaire

No. 3Z244
20 HP, 120 Gal.

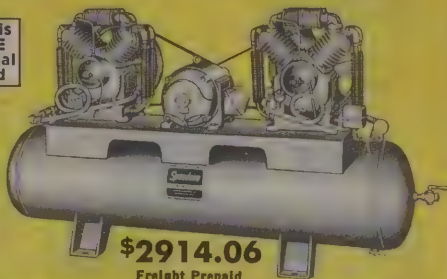
No. 3Z243
10 HP, 80 Gal.

Tank is
ASME
National
Board



\$1687.55

Freight Prepaid



\$2914.06

Freight Prepaid

Delivers high volume of air at medium pressure ranges up to 100 PSI continuous duty, 125 PSI intermittent duty. For operating multiple air tools, air cylinders, paint sprayers and other equipment which requires high air volume. Single-stage, 4 and 8-cylinder pumps are equipped with centrifugal unloader for loadless starting. Top precision quality components are precision tapered roller bearings, domed aluminum pistons, Swedish steel disc type valves, unbalanced ductile-iron crankshaft, 3 3/4" bore by 3" stroke. Cast iron, dynamically balanced, fan-type flywheel. Visual oil level gauge. 10 HP model is mounted on 80 gal. horizontal tank, 20 HP on 120 gal. tank. Tanks are ASME National Board. For details, see Index under tanks, ASME Air. Pressure switch set to cut in

at 80 PSI and out at 100 PSI. 200 PSI safety valve, 300 PSI pressure gauge, 3/4" NPT drain cock and air outlet. Include Dayton 1800 RPM, 3-phase motor, less motor control, also available with proper 230/460 volt Dayton magnetic thermally protected starter, (see below). Adjustable motor mounts. Belt guards available: for 10 HP units, see Index under Guards, Belt Drive; for 20 HP units, order on special order, at extra cost, from nearest Grainger location for fastest shipping service.

COMPRESSOR DIMENSIONS

HP	Tank	W	H	L	Wt.
10	80 Gal.	26"	57"	72"	767
20	120	31	61	99	1380

PREPAID FREIGHT on all shipments of 300 lbs. and over. See Sales Policy in Index for full details

COMPLETE COMPRESSOR-MOTOR UNIT

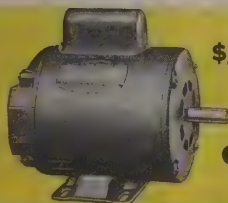
Displ. CFM	CFM at 100 PSI	Pump RPM	No. Cyl.	Motor Included Volts 60 Hz	Stock No.	Less Motor Starter Each, Retail	Freight Ppd.
49.8	34.4	651	4	3 230/460†	3Z243	\$2597.00	\$1687.55
107.8	75.4	703	8	3 230/460†	3Z244	\$484.00	2914.06

COMPLETE WITH MAGNETIC STARTER (#)

Stock No.	Retail	Each Freight Prepaid
7Z358	\$2768.00	\$1811.93
7Z359	4763.00	3117.28

3-phase starters are for 230 or 460 V. Specify which voltage is to be used.
Compressor with 208V, 3-phase motor available on special order at extra cost.

REPLACEMENT COMPRESSOR MOTORS



\$39.10

1/2 HP

Dayton

1/2 to 3 HP, 3450 RPM. Capacitor-Start Type

Dayton compressor duty motors are designed and built with special electrical and mechanical features to assure dependable, long-life service on hard starting compressor applications.

Motors are capacitor-start, open, dripproof construction, rigid mount. NEMA 56 frame. 5/8" diameter, 1 7/8" long shaft with keyway. 40° ambient (70° rise), Class B insulation, continuous duty. CCW rotation facing shaft. Recognized by UL under the Motor Component Recognition Program. Black finish. Dayton brand.

HP	RPM	Volts at 60 Hz	Bear- ings	NEMA Frame	Thermal Protec- tion	Full- Load Amps	Service Factor	Stock No.	Retail	Each	Shpg. Wt.
1/2	3450	115	Ball	56	Manual	9.5	1.25	6K745	\$63.75	\$39.10	19
1/4	3450	115	Ball	56	Manual	14.4	1.25	6K748	75.00	46.00	26
	3450	115/230	Ball	56	Manual	17.8	1.15	6K754	93.00	57.04	27
	3450	115/230	Ball	56	Manual	22.0	1.15	6K765	120.00	73.60	37
	3450	115/230	Ball	56	Manual	24.0	1.15	6K773	147.00	90.16	37
	3450	230	Ball	56	Manual	15.0*	1.15	6K779	192.00	117.76	40

Full-load amps @ 230 volts; other motors @ 115V.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

SEE WARRANTY INFORMATION ON PAGE 684

1 TO 3 HP 2-STAGE AIR COMPRESSORS

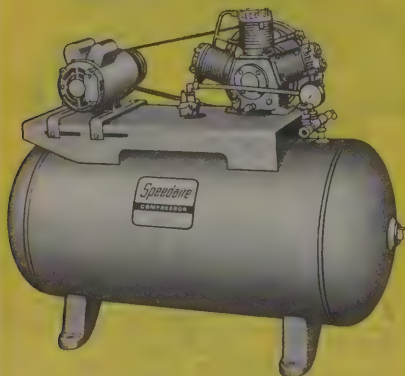
4.37 to 15.80 CFM Displ. 175 PSI Pump. ASME National Board 30 & 60 Gallon Tank

Speedaire

1 HP, No. 3Z205

\$450.97

**Tank is
ASME
National
Board**



Above: 3-cylinder compressor on 2 HP units.
Left: 2-cylinder compressor on 1 HP units.
Right: 2-cylinder in-line compressor on 3 HP units.



Built for dependable, heavy duty air supply service in filling stations, garages, industrial plants, etc. Speedaire compressors comply with all requirements of Commercial Standard CS-126-56 as developed by Industry and issued by U.S. Dept. of Commerce.

Two-stage 2 or 3-cylinder compressors, ruggedly built of long-life materials. Counter-balanced, ductile iron crankshaft, Timken tapered roller main bearings. Aluminum pistons. Swedish steel disc and reed-type valves. Visual oil level gauge. 3 HP models have centrifugal unloader. Finned intercooler. Mounted on 30 or 60 gal. tank that is ASME National Board—for details, see Index under Tanks. ASME Air. Bell guards available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service.

SINGLE & 3-PHASE DAYTON MOTORS

Choice of single phase or 3-phase Dayton motors, properly mounted on adjustable rails less motor starter; also available with proper Dayton magnetic, thermally protected starter as listed below. 200 PSI safety valve, air gauge and multiple drive included. Pressure switch models have switch set to turn on at 145 PSI and off at 175 PSI.

CONSTANT SPEED UNLOADER MODELS

Have same general construction features, but unloader permits unit to run continuously, maintaining tank pressure within pre-set range—discharging excess air automatically. Recommended where air requirements are steady and exceed 50% of compressor output. Entire compressor finished in green enamel.

HP	Tank	Compressor Bore	Stroke	L	W	H
1	30 gal.	2 1/4"	2"	43"	17 1/2"	31"
2	60	2 3/4", 2 1/2"	2	51"	20"	38"
3	60	4 1/4" & 2 1/2"	3	52"	20"	46"

PREPAID FREIGHT on all shipments of 300 lbs. and over. See Sales Policy in index for full details.

PRESSURE SWITCH CONTROL COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter										COMPLETE WITH MAGNETIC STARTER (#)			
HP	Displ. CFM	CFM at 175 PSI	Pump RPM	—Motor Included— Phase	Volts 60 Hz	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Retail	Each	Shpg. Wt.
1	4.37	3.09	695	1-Ph.	115/230	3Z205	\$694.00	\$450.97	278	7Z321	\$762.00	\$500.46	285
1	4.37	3.09	695	3-Ph.	208-220/440	3Z206	717.00	466.22	267	7Z323	784.00	514.68	276
2	8.70	6.10	695	1-Ph.	115/230	3Z209	990.00	643.46	372	7Z328	1058.00	692.95	379
2	8.70	6.10	695	3-Ph.	208-220/440	3Z210	948.00	616.34	366	7Z329	1029.00	675.02	374
3	15.80	12.00	535	1-Ph.	115/230	1Z762	1393.00	905.55	444	7Z091	1471.00	962.34	451
3	15.80	12.00	535	3-Ph.	230/460	1Z763	1236.00	803.10	431	7Z092	1317.00	861.78	439

CONSTANT SPEED UNLOADER COMPRESSOR MODELS

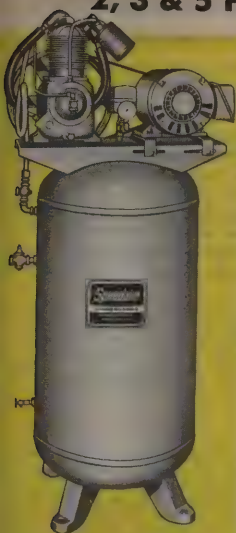
COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter										COMPLETE WITH MAGNETIC STARTER (#)			
HP	Displ. CFM	CFM at 175 PSI	Pump RPM	—Motor Included— Phase	Volts 60 Hz	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Retail	Each	Shpg. Wt.
1	4.37	3.09	695	1-Ph.	115/230	3Z211	\$713.00	\$463.03	250	7Z331	\$781.00	\$512.52	257
1	4.37	3.09	695	3-Ph.	208-220/440	3Z212	738.00	479.89	267	7Z333	805.00	528.35	276
2	8.70	6.10	695	1-Ph.	115/230	3Z215	1053.00	684.22	352	7Z337	1121.00	733.71	359
2	8.70	6.10	695	3-Ph.	208-220/440	3Z216	1000.00	649.70	361	7Z338	1081.00	708.38	370
3	15.80	12.00	535	1-Ph.	115/230	3Z047	1476.00	959.55	460	7Z185	1554.00	1016.34	467
3	15.80	12.00	535	3-Ph.	230/460	3Z048	1304.00	847.79	452	7Z186	1385.00	906.47	460

(#) Single phase starters are 115V or 230V thru 2 HP. For larger HP, use 230V only. Three phase are for 208-230 or 440-460V. Specify which voltage is to be used.

(†) Compressor with 208V, 3-Phase motor available on special order at extra cost.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

2, 3 & 5 HP VERTICAL TANK COMPRESSORS



8.70 to 20.0 CFM Displ. 175 PSI. Two-Stage Pumps
ASME National Board 60 & 80 Gallon Tanks. Dayton Motors

2 HP, No. 3Z220
\$672.77

Freight Prepaid

**Tank is
ASME
National
Board**

Require only 6 sq. ft. of floor space. Built for dependable, economical, heavy duty service in service stations, garages, industrial plants, etc. Comply with all requirements of Commercial Standard CS126-56 as developed by industry and issued by the U.S. Dept. of Commerce. Compressor-motor mounted on 60 or 80 gal. ASME National Board tanks—for details see Index under Tanks, ASME Air. Compressor is two-stage (2 & 3 cyl.) type, built of quality materials. Counter-balanced, ductile iron crankshaft. Timken tapered roller bearings. Aluminum pistons. Swedish steel disc and reed-type valves. Visual oil-level gauge. 3 and 5 HP models have centrifugal unloader. Choice of single phase or 3-phase, 1800 RPM Dayton motor, mounted on adjustable brackets, less motor starter; also available with Dayton magnetic thermally protected starter, listed. Tank has four 3/4" NPT pipe outlets. 200 PSI safety valve, air gauge. Pressure switch models have switch set to turn on at 145 PSI and off at 175 PSI. Green finish. Belt guards available on special order, at extra cost. Order from nearest Grainger location for fastest shipping service.

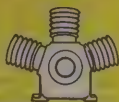
CONSTANT SPEED UNLOADER MODELS

Have same general construction features, but unloader permits unit to run continuously maintaining tank pressure within pre-set range—discharging excess air automatically. Recommended where air requirements are steady and exceed 50% of compressor output.

COMPRESSOR SPECIFICATIONS & DIMENSIONS

HP	Motor	Cylinder Bores	Stroke	Tank Gals.	W	Dimensions H	D	Shpg. Wt.
2	1-Phase	2 1/8", 2 1/8" & 1 1/2"	2"	60	31"	59"	24"	410
2	3-Phase	2 1/8", 2 1/8" & 1 1/2"	2"	60	31"	59"	24"	403
3	1-Phase	4 1/8" & 2 1/2"	3	80	31"	73"	24"	524
3	3-Phase	4 1/8" & 2 1/2"	3	80	31"	73"	24"	564
5	1-Phase	4 1/8" & 2 1/2"	3	80	31"	73"	24"	542
5	3-Phase	4 1/8" & 2 1/2"	3	80	31"	73"	24"	518

3-Cylinder
Compressor
Used on
2-HP Units



PREPAID FREIGHT on all units on this page. See Sales Policy in index for full details.

PRESSURE SWITCH CONTROL COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter

COMPLETE WITH MAGNETIC STARTER (#)

HP	Displ. CFM	CFM at 175 PSI	Pump RPM	Motor Phase	Motor Included Volts 60 Hz	Stock No.	Less Motor Starter Retail	Each Freight Ppd.	Stock No.	Retail	Each Freight Prepaid
2	8.70	6.10	695	1-Ph.	115/230	3Z219	\$1096.00	\$712.13	7Z327	\$1164.00	\$761.62
2	8.70	6.10	695	3-Ph.	208-220/440	3Z220	1035.00	672.77	7Z330	1116.00	731.45
3	15.80	12.00	535	1-Ph.	115/230	1Z721	1537.00	999.16	7Z085	1615.00	1055.95
3	15.80	12.00	535	3-Ph.	230/460	1Z723†	1382.00	898.47	7Z087	1463.00	957.15
5	20.00	16.00	700	1-Ph.	230	1Z722	1701.00	1105.43	7Z086	1801.00	1178.28
5	20.00	16.00	700	3-Ph.	230/460	1Z724†	1417.00	921.03	7Z088	1508.00	987.01

CONSTANT SPEED UNLOADER COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter

COMPLETE WITH MAGNETIC STARTER (#)

HP	Displ. CFM	CFM at 175 PSI	Pump RPM	Motor Phase	Motor Included Volts 60 Hz	Stock No.	Less Motor Starter Retail	Each Freight Ppd.	Stock No.	Retail	Each Freight Prepaid
2	8.70	6.10	695	1-Ph.	115/230	3Z223	\$1093.00	\$710.42	7Z336	\$1161.00	\$759.91
2	8.70	6.10	695	3-Ph.	208-220/440	3Z224	1033.00	671.06	7Z339	1114.00	729.74
3	15.80	12.00	535	1-Ph.	115/230	3Z043	1638.00	1064.70	7Z181	1716.00	1121.49
3	15.80	12.00	535	3-Ph.	230/460	3Z045†	1475.00	958.74	7Z183	1556.00	1017.42
5	20.00	16.00	700	1-Ph.	230	3Z044	1807.00	1174.67	7Z182	1907.00	1247.52
5	20.00	16.00	700	3-Ph.	230/460	3Z046†	1502.00	976.19	7Z184	1593.00	1042.17

Single phase starters are 115V or 230V thru 2 HP, for larger HP, use 230V only. Three phase are for 208-230 or 440-460V. Specify which voltage is to be used.
Compressor with 208V, 3-Phase motor available on special order at extra cost.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

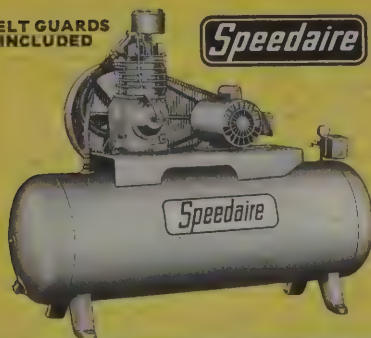
Get Delivery from Stock on over 95% of the Products in this MotorBook
Grainger Availability and Service Help You Sell More and Net More Profits

SEE WARRANTY INFORMATION ON PAGE 684

3 & 5 HP, 2-STAGE, 60 & 80 GAL. COMPRESSORS

Exclusive Reed-Type Valve System. 12.9 to 21.5 CFM Displ. ASME National Board Tanks

**BELT GUARDS
INCLUDED**



Speedaire

- Three-piece, self-cleaning multiple reed-type valve mechanism for long life
- Die cast aluminum heads for faster heat dissipation
- Aluminum low-pressure piston, cast iron high pressure piston and cylinder block
- Low operating RPM for longer life
- Centrifugal unloader for easy, load-less starts

**Tank Is
ASME
National
Board**

\$731.77

No. 3Z494, 3-5 HP
60 Gal., Less Motor & Drive
Freight Prepaid

Heavy duty 3 & 5 HP Speedaire compressors for garages, filling stations, small industrial shops and other light industrial and commercial applications. New design greatly increases operating life—exclusive three-piece, self-cleaning multiple reed-type valve mechanism. Die cast aluminum heads for faster heat dissipation and cooler running temperatures. Aluminum low pressure piston, cast iron high pressure piston and cylinder block. Fan-type cast iron flywheel provides air flow for cooling heads. Factory-installed belt guards included. Finned inter-coolers. Counter-balanced, ductile iron crankshaft, aluminum connecting rods. Tapered roller bearings, 3-pc. scraper type oil rings. Low operating RPM for longer life. Centrifugal unloader

for simple, efficient loadless starts. Easy service air filter/silencer. Visual oil level gauge. Mounted on 60 & 80 gallon ASME National Board tanks—for details, See Index under Tanks ASME Air. Two-stage pump. For 100 to 175 PSI applications—see tables below. Pressure switch settings on all tank mounted units 145 PSI on and 175 PSI off. Fully adjustable for other settings. Tank safety valves conform to ASME standards. Select from "7Z" combination numbers below to receive the correct Dayton motor, matched V belts, motor pulley and Dayton brand magnetic motor starter with proper thermal protection. Easy installation instructions supplied with compressor. Metallic green finish. Components made of finest materials, precision machined.

COMPRESSOR SPECIFICATIONS & DIMENSIONS

COMPRESSOR UNITS WITH BELT GUARD, Less Motor & Drive*

HP Range	CFM Displ. Range	CFM Range At 175 PSI	Tank Gals.	No. Cyl.	Cyl. Bores	Stroke	Dimensions W H L	Stk. No.	—Less Motor & Drive— Freight Prepaid Each	Shpg. Wt.
3-5	12.94-21.56	10-16	60	2	4 3/4" x 2 1/2"	3"	22" 51" 53"	3Z494	\$1162.00	486
3-5	12.94-21.56	10-16	80	2	4 3/4" x 2 1/2"	3"	23" 51" 68"	3Z495	1233.00	534

(*) Less motor, motor pulleys & belts.

FREIGHT PREPAID on all units listed on this page. See Sales Policy In Index for full details.

COMPLETE COMPRESSOR UNITS—PERFORMANCE & PRICE DATA

COMPLETE COMPRESSOR—MOTOR UNIT Less Motor Starter										COMPLETE WITH MAGNETIC STARTER (#)		
HP	CFM Displ.	CFM at 175 PSI*	Pump RPM	—Motor Included— Phase Volts 60 Hz	Stock No.	—Less Motor Starter— Retail	Each, Freight Ppd.	Stock No.	Retail	Each, Freight Prepaid		
MOUNTED ON 60 GAL. ASME NATIONAL BOARD TANK												
3	12.94	9.90	420	1	115/230	7Z467	\$1367.23	7Z487	\$1446.23	\$993.54		
3	12.94	9.90	420	3	230/460	7Z468	1263.76	7Z488	1344.76	907.05		
3	12.94	9.90	420	3	200	7Z469	1262.98	7Z489	1343.98	907.05		
5	21.56	15.80	700	1	115/230	7Z470	1491.27	7Z490	1591.27	1110.72		
5	21.56	15.80	700	3	230/460	7Z471	1289.00	7Z491	1380.00	931.91		
5	21.56	15.80	700	3	200/208	7Z472	1288.12	7Z492	1379.12	931.91		
MOUNTED ON 80 GAL. ASME NATIONAL BOARD TANK												
3	12.94	9.90	420	1	115/230	7Z473	\$1488.23	7Z493	\$1566.23	\$1038.32		
3	12.94	9.90	420	3	230/460	7Z474	1384.76	7Z494	1465.76	951.83		
3	12.94	9.90	420	3	200/208	7Z475	1383.98	7Z495	1464.98	951.83		
5	21.56	15.80	700	1	230	7Z476	1612.27	7Z496	1712.27	1155.50		
5	21.56	15.80	700	3	230/460	7Z477	1410.00	7Z497	1501.00	976.69		
5	21.56	15.80	700	3	200/208	7Z478	1409.12	7Z498	1500.12	976.69		

(*) Flow rate data determined in accordance with ASME power codes.

(#) Single phase starters are for 230V. Three phase are for 230/460V. Specify which voltage is to be used.

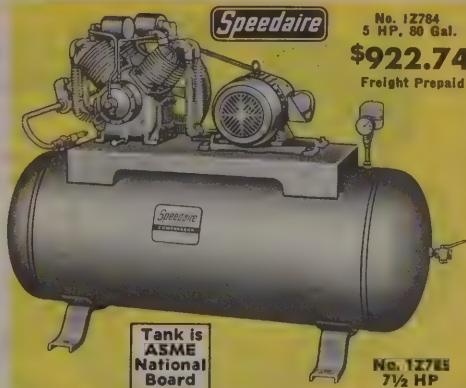
5 to 10 HP 2-STAGE, 80 & 120 GAL. COMPRESSORS

Pressure Switch or Constant Speed. 20 to 40 CFM Displ., 175 PSI Pump. ASME National Board Tanks

Heavy duty Speedaire compressors built ready for electrical installation. Complies with Commercial Standard CS126-56 developed by industry and issued by the U.S. Dept. of Commerce. 80 or 120 gal. tanks are ASME National Board—for details, see index under Tanks, ASME Air.

2-stage, 2 and 4-cylinder compressors with 4½ & 2½" bores, 3" stroke. Precision built of durable materials. Has centrifugal unloader for loadless starting (not on HP constant-speed models). Counterbalanced, ductile iron crankshaft, Timken tapered roller bearings. Aluminum pistons. Finned intercooler.

Complete with Dayton 3-phase or single phase motors, less motor starter; also available with proper 230/460 volts (3-phase only) Dayton magnetic thermally protected starter as listed below. Motors mounted on adjustable rails. 200 PSI safety valve, air gauge and multiple drive included. ¾" IPT. Pressure switch models have switch set to turn on at 145 PSI and off at 175 PSI. Pressure switch has adjustable feature for lower pressure settings with differential range of 24 PSI min. to 6 PSI max. Detailed instructions packed with switch. Overall compressor dimensions: 80 gal: 23W, 52H, 70"L. 120 gal: 31W, 57H, 72"L. Speedaire brand. Green enamel finish. Belt guards available—See index under Guards, Drive Belt.



No. 12784
5 HP, 80 Gal.
\$922.74
Freight Prepaid

No. 12785
7½ HP

CONSTANT SPEED UNLOADER MODELS have same general construction features, but unloader permits unit to run continuously maintaining tank pressure within pre-set range—discharging excess air automatically. Recommended where air requirements are steady and exceed 50% of compressor output.

PREPAID FREIGHT on all units listed on this page. See Sales Policy in Index for full details

PRESSURE SWITCH CONTROL COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter												COMPLETE WITH MAGNETIC STARTER (#)			
HP	Displ. CFM	CFM at 175 PSI		Pump No.	Motor Cyl.	Included Phase	Volts 60 Hz	Stock No.	Less Motor Starter			Shpg. Wt.	Stock No.	Retail	Each, Freight Prepaid
		PSI	RPM						Retail	Freight	Ppd.				
MOUNTED ON 80 GAL. ASME NATIONAL BOARD TANK															
5	20	16	700	2	1	230		12806	\$1654.00	\$1075.28	585	72098	\$1754.00	\$1148.13	
5	20	16	700	2	3	230/460		12784	1420.00	922.74	553	72095	1511.00	988.72	
7½	31	24	530	4	3	230/460		12785	2149.00	1396.91	654	72096	2240.00	1463.34	
10 (1)	40	31	680	4	3	230/460		12786	2366.00	1537.74	666	72097	2537.00	1662.12	
MOUNTED ON 120 GAL. ASME NATIONAL BOARD TANK															
5	20	16	700	2	3	230/460		12935	\$1645.00	\$1069.31	663	72108	\$1736.00	\$1135.29	
7½	31	24	530	4	3	230/460		12936	2379.00	1546.13	772	72109	2470.00	1612.56	
10 (1)	40	31	680	4	3	230/460		12937	2443.00	1587.89	789	72110	2614.00	1712.27	

CONSTANT SPEED UNLOADER COMPRESSOR MODELS

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter												COMPLETE WITH MAGNETIC STARTER (#)		
HP	CFM		Pump No.	RPM	Cyl.	Motor Included		Stock No.	Less Motor Starter		Shpg. Wt.	Stock No.	Retail	Each, Freight Prepaid
	Displ. at 175 PSI	PSI				Phase	Volts 60 Hz		Retail	Each, Freight Ppd.				
MOUNTED ON 80 GAL. ASME NATIONAL BOARD TANK														
5	20	16	700	2	1	230	32052		\$1697.00	\$1102.85	575	72190	\$1797.00	\$1175.70
5	20	16	700	2	3	230/460	32049		1502.00	976.27	610	72187	1593.00	1042.25
7½	31	24	530	4	3	230/460	32050		2354.00	1530.16	673	72188	2445.00	1596.59
10	40	31	680	4	3	230/460	32051		2433.00	1581.39	732	72189	2604.00	1705.77
MOUNTED ON 120 GAL. ASME NATIONAL BOARD TANK														
5	20	16	700	2	3	230/460	32061		\$1701.00	\$1105.83	648	72199	\$1792.00	\$1171.81
7½	31	24	530	4	3	230/460	32062		2473.00	1607.61	792	72200	2564.00	1674.04
10	40	31	680	4	3	230/460	32063		2624.00	1705.76	855	72201	2795.00	1830.14

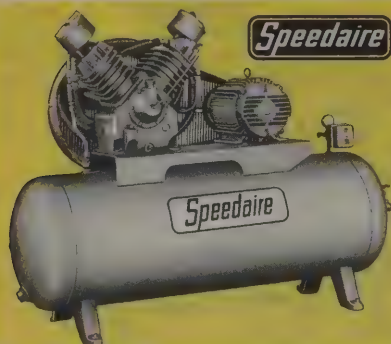
Water cooled, 10 HP compressor units also available. See Index under Air Compressors and Accessories. Single phase starters are for 230V. Three phase are for 230 or 460V. Specify which voltage is to be used. Compressor with 208V, 3-phase motor available on special order at extra cost.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

SEE WARRANTY INFORMATION ON PAGE 684

7½ & 10 HP, 2-STAGE, 80 & 120 GAL. COMPRESSORS

Exclusive Reed-Type Valve System. 31.7 to 43.1 CFM Displ. ASME National Board Tanks



- Three-piece, self-cleaning multiple reed-type valve mechanism for long life
- Die cast aluminum heads for fast heat dissipation
- Aluminum low-pressure piston, cast iron high pressure piston and cylinder block
- Low operating RPM for longer life
- Centrifugal unloader for easy, loadless starts

Tank is
ASME
National
Board

\$1105.89

No. 32496, 7½-10 HP
80 Gal., Less Motor
Freight Prepaid

BELT GUARDS INCLUDED

Heavy duty 7½ & 10 HP Speedaire compressors for general and commercial use such as printers, medium manufacturing, laundry industry, tire recapping, large auto shops, etc. Exclusive three-piece, self-cleaning multiple reed-type valve mechanism greatly increases operating life. Die cast aluminum heads for faster heat dissipation and cooler running temperatures.

Aluminum low pressure pistons, cast iron high pressure pistons and cylinder blocks. Fan-type cast iron flywheel provides air flow for cooling heads. Factory-installed belt guards included. Finned intercoolers. Counter-balanced, ductile iron crankshaft; aluminum connecting rods. Tapered roller bearings, 3-piece scraper type oil rings. Units have low operating RPM for longer life and centrifugal unloaders for simple

and efficient loadless starts. Easy service air filter/silencer. Visual oil level gauge.

Mounted on 80 & 120 gallon ASME National Board tanks—for details, see Index under Tanks. ASME Air. Two-stage type pumps. For 100 to 175 PSI applications—see tables below. Pressure switch settings on all tank-mounted units to 145 PSI on and 175 PSI off. Fully adjustable for other pressure settings. Tank safety valves conform to ASME standards.

Select from "7Z" combination numbers below to receive the correct Dayton motor, matched V-belts and Dayton brand magnetic motor starter with proper thermal protection. Easy installation instructions supplied with compressors. Metallic green finish. Components made of finest materials and quality checked.

FREIGHT PREPAID on all units listed on this page. See Sales Policy in Index for full details.

COMPRESSOR SPECIFICATIONS & DIMENSIONS

COMPRESSOR UNITS WITH BELT GUARD, Less Motor & Drive*

HP Range	CFM Displ. Range	CFM Range At 175 PSI	Tank Gals.	No. Cyl.	Cyl. Bores	Stroke	Dimensions L			—Less Motor & Drive—		
										Stk. No.	Freight Retail	Shpg. Each Wt.
7½-10	31.72-47.80	24.40-34.00	80	4	4¾x2½"	3"	23"	51"	68"	32496	\$1755.00	\$1105.89 620
7½-10	31.72-47.80	24.40-34.00	120	4	4¾x2½"	3"	26"	57"	75"	32497	1977.00	1245.41 768

(*) Less motor, motor pulleys & belts.

COMPLETE COMPRESSOR UNITS—PERFORMANCE & PRICE DATA

COMPLETE COMPRESSOR—MOTOR UNIT Less Motor Starter										COMPLETE WITH MAGNETIC STARTER (#)			
HP	Displ. CFM	CFM* at 175 PSI	Pump RPM	—Motor Included—		Stock No.	—Less Motor Starter—		Stock No.	Retail	Each, Freight Prepaid		
				Phase	Volts 60 Hz		Retail	Freight Ppd.					
MOUNTED ON 80 GAL. ASME NATIONAL BOARD TANK													
7½	31.72	24.40	515	3	230/460	7Z479	\$2015.52	\$1304.65	7Z499	\$2106.52	\$1371.08		
10	43.12	34.00	700	3	230/460	7Z481	2072.28	1347.32	7Z501	2193.28	1435.20		
MOUNTED ON 120 GAL. ASME NATIONAL BOARD TANK													
7½	31.72	24.40	515	3	230/460	7Z483	\$2237.52	\$1444.17	7Z503	\$2328.52	\$1510.60		
10	43.12	34.00	700	3	230/460	7Z485	2291.28	1486.84	7Z505	2415.28	1574.72		

(*) Flow rate data determined in accordance with ASME power codes.

(#) Single phase starters are for 230V. Three phase are for 230/460V. Specify which voltage is to be used.

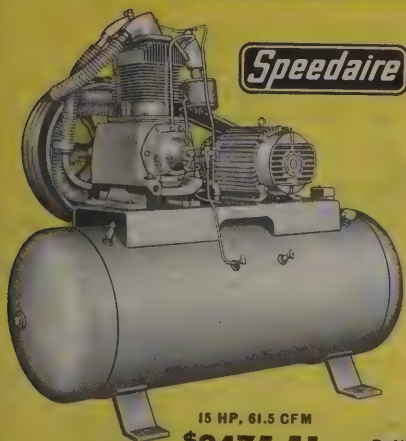
AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

NEMA STANDARDS ON ELECTRIC MOTORS LISTED HEREIN

Electric motors listed in this catalog are manufactured to the dimensional, performance, and electrical standards established by NEMA (National Electrical Manufacturers Association).

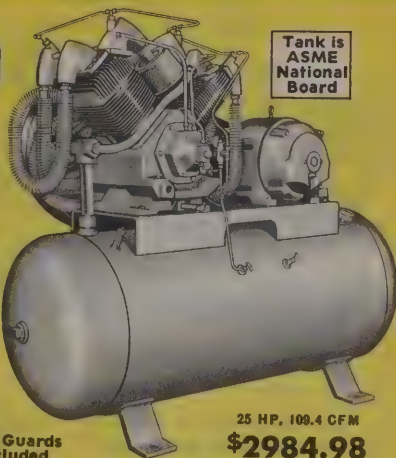
15 & 25 HP, 2-STAGE, 120 GAL. ASME COMPRESSORS

Dual Control. 2, 4-Cyl. Pumps. Oil Monitor Control. Loadless Starting.



15 HP, 61.5 CFM
\$2475.51
 Freight Prepaid

Belt Guards
 Included



25 HP, 109.4 CFM
\$2984.98
 Freight Prepaid

Tank is
 ASME
 National
 Board

built for dependable, heavy duty air supply in industrial operations for manufacturing and assembly. Speedaire compressors comply with Commercial Standard CS126-56 as developed by the US Dept. of Commerce. 120 gal. tanks are ASME National Board—for details see Index under Tanks, ASME, Air.

Two-stage, 2 and 4-cylinder compressor pumps precision built of durable materials. Swedish steel disc valves, aluminum pistons, counter-balanced ductile iron crankshaft, Timken tapered roller bearings. Finned intercooler, splash lubrication, visual oil level indicator. 6¼ & 3¼" bore, 4¼" stroke on 15 HP, 4" on 25 HP.

Top quality features for industrial applications. Oil monitor safety control shuts unit off if oil supply drops below recommended level. Dual controls for both pressure switch and constant speed unloader operation provides the most economical operation and permits complete flex-

ibility, switching to either method of control to meet any air volume requirement. Pressure switch differential preset at 140 PSI on, 175 off. Centrifugal unloader for loadless starting. Totally enclosed belt guard. Convenient side-mounted tank drain.

Powered by Dayton 1800 RPM 3-phase, 230/460V, 60 Hz motor. Less motor control; also available with proper 230/460V Dayton magnetic thermally protected starter, as listed below. ASME approved safety valve; 3/4" IPT outlet, 300 PSI air gauge, multiple drive included. Belt tension fully adjustable. Tank is 24" dia.

COMPRESSOR DIMENSIONS

Stock No.	HP	Tank Gals.	L	Overall W	H	Shpg. Wt.
3Z412	15	120	76"	35"	58"	1144
3Z413	25	120	76"	35"	58"	1350

PREPAID FREIGHT on all compressors listed on this page.
 See Sales Policy in Index for full details

COMPLETE COMPRESSOR-MOTOR UNIT LESS MOTOR STARTER

Displ. CFM	CFM at 175 PSI	Pump RPM	No. Cyl.	Motor Included Phase	Motor Included Volts	Motor Included Hz	Stock No.	Less Motor Starter Retail	Each Freight Ppd.
61.5	53.7	770	2	3	230/460	60	3Z412	\$4050.00	\$2475.51
109.4	91.0	770	4	3	230/460	60	3Z413	\$5020.00	\$2984.98

COMPLETE WITH MAGNETIC STARTER (#)

Stock No.	Retail	Each Freight Prepaid
7Z421	\$4221.00	\$2599.89
7Z422	\$5299.00	\$3188.20

3-Phase starters are for 230 or 460 V. Specify which voltage is to be used.
 Compressor with 208V, 3-phase motor available on special order at extra cost.

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

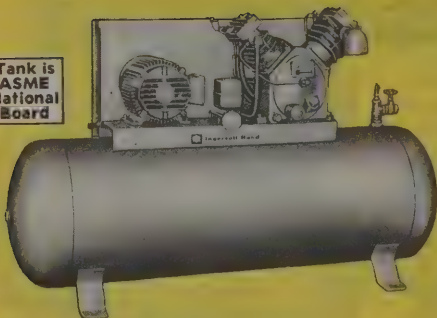
Thousands of Dealers and Service Men
 Depend On Grainger Supply Service
 For Pick-ups and Same-Day Shipping





INGERSOLL-RAND 2 to 25 HP

Tank is
ASME
National
Board



**2 to 25 HP Models
Designed and Built for
Long Service Life on
Continuous-Duty Applications
In Manufacturing and
Service Facilities.**

2 TO 5 HP MODELS
Two-Cylinder Pump, Finger Type Valves
9.95 to 19.8 CFM Displacement
60 or 80 Gal. ASME National Board Tank
Pressure Switch Control

\$1011.16

Freight Prepaid
2 HP, 3 phase

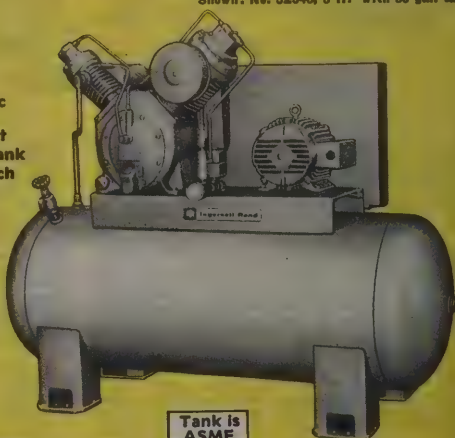
Shown: No. 32548, 3 HP with 80 gal. tank

7½ AND 10 HP MODELS
Two-Cylinder Pump, Concentric
Ring Valves
36.4 and 45.0 CFM Displacement
120 Gal. ASME National Board Tank
Dual Control for Pressure Switch
or Constant-Speed Operation

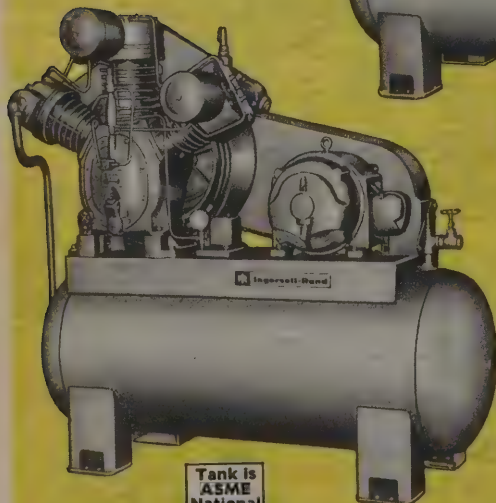
\$2182.12

Freight Prepaid
7½ HP

Shown: 10 HP, No. 32553



Tank is
ASME
National
Board



Tank is
ASME
National
Board

15 TO 25 HP MODELS
3-Cylinder Pump, with Concentric
Ring Valves on 15 and 20 HP units,
Air Cushioned Channel Valves
on 25 HP Unit
71.4 to 109.0 CFM Displacement
120 Gal. ASME National Board Tank
Dual Control for Pressure Switch
or Constant-Speed Operation

\$2936.24

Freight Prepaid
15 HP

Shown: 25 HP, No. 32556

TWO-STAGE AIR COMPRESSORS

ALL INGERSOLL-RAND AIR COMPRESSORS HAVE THESE QUALITY DESIGN AND CONSTRUCTION FEATURES

- **Separately Cast Cylinders**, individually bolted to crankcase. Air connections on cylinder, so head can be removed without disturbing piping.
- **One-Piece Connecting Rods**, require no adjustment, have no bolts or nuts to come loose.
- **Equalized Pistons**, for smooth running balance. Low pressure piston made of aluminum, high pressure piston of cast iron, to equalize mass. Two compression rings and two oil rings on each piston.
- **Balanced, Overhung Crankshaft** of rigid construction and liberally sized. Runs in two heavy duty ball bearings.
- **Finned Copper Intercoolers** dissipate heat 6 times faster than cast iron, need not be removed to take off cylinder head.
- **Centrifugal Unloader** releases air in pump cylinders whenever unit stops, thus reducing load on motor when unit re-starts.
- **Full-Time Low-Oil Level Protection** provided by tamper-proof switch that automatically stops compressor if crankcase oil gets too low, will not allow re-starting without adding oil. Unit monitors continuously, not just when compressor is off.
- **Valves Designed for Long Life, Easy Service.** Stainless steel for corrosion resistance. Finger type on 2 to 5 HP models, concentric ring type on 7½ to 20 HP models, air-cushioned channel valves on 25 HP units.
- **Belt Guards** that enclose drive on all sides.
- **ASME National Board Tank**, made and tested to meet standards of the American Society of Mechanical Engineers. Certificate of registration supplied with each tank.
- **Open, dripproof motors** made to NEMA performance and dimensional standards. Motors on single phase models are capacitor-start.
- **Durable metallic blue enamel finish.**

INGERSOLL-RAND COMPRESSOR PERFORMANCE AND DIMENSION DATA

HP	Pump RPM	Displ. CFM	Free Air CFM — @ Tank PSI —			Cylinders	Stroke	H	Overall Dimensions	
			100	150	200				W	D
2	885	10.0	7.4	7.2	7.0	3 & 1½"	2½"	19½"	38"	49"
3	720	14.4	11.3	11.1	10.9	4 & 2½"	2½"	23	40½"	64
5	985	19.8	15.1	14.9	14.7	4 & 2½"	2½"	23	40½"	64
7½	800	36.4	26.9	25.7	25.5	5 & 2½"	4	26	56	67
10	820	45.0	35.8	35.2	34.8	5½ & 3	4	26	57½"	67
15	1110	71.4	52.0	51.0	50.0	4½, 4½ & 3½	3½	29½"	55½"	67
20	1080	98.5	73.3	72.5	71.7	5, 5 & 3½	4	29½"	58	67
25	1200	109.0	81.2	80.0	79.0	5, 5 & 3½	4	32½"	63½"	74

PREPAID FREIGHT on all units on this page. See Sales Policy In Index for full details

INGERSOLL-RAND COMPRESSOR MOTOR SPECIFICATIONS AND PRICES

COMPLETE COMPRESSOR-MOTOR UNIT Less Motor Starter										COMPLETE WITH MAGNETIC STARTER/		
HP	Tank Gal.	Control	Motor Included Phase	Volts, 60 Hz	Mfr's Model	Stock No.	Retail	Each Freight Prepaid	Shpg. Wt.	Stock No.	Retail	Each Freight Prepaid
2	60	Pressure Switch	3	230/460	T302TM	3Z546	\$1487.00	\$1011.16	488	7Z512	\$1568.00	\$1089.84
			1	115/230	T302TM	3Z547	1585.00	1077.80	518	7Z513	1653.00	1127.29
	80	Pressure Switch	3	230/460	242D3	3Z548	1621.00	1102.28	654	7Z514	1702.00	1160.96
			1	115/230	242D3	3Z549	1792.00	1218.56	671	7Z515	1870.00	1275.35
	80	Pressure Switch	3	230/460	242D5	3Z550	1759.00	1196.12	643	7Z516	1850.00	1262.10
½	120	Dual Control	3	230/460	7TE	3Z552	3209.00	2182.12	1212	7Z518	3300.00	2248.10
			3	230/460	71T2E	3Z553	3534.00	2403.12	1224	7Z519	3655.00	2491.00
	120	Dual Control	3	230/460	T3015TM	3Z554	4318.00	2936.24	1385	7Z520	4489.00	3060.82
	120	Dual Control	3	230/460	T3020TM	3Z555	5363.00	3646.84	1531	7Z521	5642.00	3850.06
	120	Dual Control	3	230/460	T3025HTM	3Z556	5525.00	3757.00	1678	7Z522	5804.00	3960.22

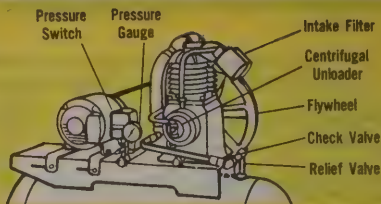
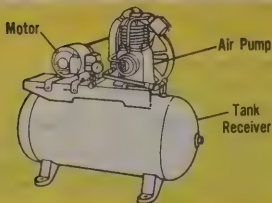
Specify voltage to be used. Prices shown are for compressors with 230V thermal protected starters; prices slightly higher where other voltage is specified.

Full-Fact Dayton Motor Carton Label Makes Stocking and Selection Easier



Over 800 Dayton motor types have Full-Fact carton label as illustrated. The Dayton label illustrates and identifies the specific motor, and lists all its important electrical and mechanical features clearly, for easy reference by dealer and user. This information aids in proper selection, simplifies order filling, and helps prevent misapplications and returns to dealers. Aside from their obvious utility, Dayton Full-Fact labels, and the distinctive white Dayton carton, reflect pride in the product, and assure the buyer of quality and the integrity of the maker.

COMPRESSED AIR SYSTEM TERMINOLOGY



CFM—Cubic Ft. per Min. A measure of a compressor's capacity, and of the air flow requirement of air-driven devices. Compressors have two ratings; Displacement CFM and Free Air CFM. Air-driven devices are rated in Free Air CFM.

Displacement CFM is calculated by multiplying the volume of the pump cylinder(s) (low-pressure cylinders only on two-stage pumps) by the pump speed in RPM. This rating does not consider the efficiency of the air pump.

Free Air CFM is the actual air delivery of a compressor, as measured when discharged to atmospheric pressure.

Pressure (PSI)—The force exerted by the compressed air. Measured in lbs. per square inch (PSI).

Air Pump (Compressor Head)—The part of the compressor that compresses the air.

Single-Stage type, for applications requiring air at 100 PSI or less. Has one or more cylinders, all discharging directly into the tank.

Two-Stage type, for applications requiring air at 100-175 PSI. Has two or more cylinders in series. The first cylinder compresses air into the second cylinder, which compresses it further and then pumps it into the tank.

Intercooler—A length of tubing, often with fins, connecting the low and high pressure cylinders of a two-stage compressor pump. It is used to dissipate some of the heat generated in compression, improving pump performance and life.

Intake Filter—A foam pad or other filtering material mounted on the pump air intake, to prevent airborne contaminants from entering the pump and reducing piston and cylinder life. Must be serviced regularly for best pump efficiency.

Air Tank (Receiver)—Stores air compressed by pump for peak loads or intermittent use. Isolates pump pressure pulsation. 3 types are available:

ASME Standard (UM Type) Tanks. Made and tested in accordance with American Society of Mechanical Engineers standards. ASME certificate of compliance is furnished with each tank.

ASME National Board (U Type) Tanks. Made, tested, inspected and registered to meet standards of ASME. A certificate is supplied with each tank to show compliance and registry number. The ASME certificate is required by law in many cities and states to pass safety codes. It assures that: (1) Code approved materials are used, (2) Steel plate is without defects and is the specified thickness, (3) Proper welding techniques are employed by experienced operators, (4) Openings and supports are the correct size, and (5) Tank has passed rigid tests. ASME tanks must be used where OSHA compliance is required.

Non-Code tanks do not meet ASME standards. They are widely used on small compressors, in locations where compliance with OSHA and similar standards is not required.

Tank Pressure Controls—three types used:

Pressure Switch Control starts and stops the compressor as pressure falls and rises in the tank. Generally used on compressors for intermittent duty and where maximum air usage is less than 50% of the compressor's capacity.

Constant Speed Control releases (unloads) excess pressure, while compressor operates continuously. Used in applications where air usage is continuous, or maximum air usage exceeds 50% of the compressor's capacity. See Unloaders.

Dual Control allows the selection of either constant speed or start-stop operation to fit varying air demands. Allows compressors to be used efficiently in all applications.

Check Valve. Allows air to flow one way only, from pump to tank. When compressor stops, this valve closes, preventing loss of air from tank or damage to pump valves.

Safety or Relief Valve vents the tank if excess pressure builds up. For safety, a relief valve must be used on all compressors. ASME stamped and sealed safety valves must be used on all ASME tanks.

Unloaders—There are two basic types:

Head Unloaders open the air discharge line between pump and tank, whenever the pump stops, relieving pressure, to make re-starting easier. A check valve prevents loss of air from the tank. There are 3 types of head unloaders:

Centrifugal: a speed-activated valve that closes as compressor comes up to speed and opens when compressor stops.

Pressure Switch Unloader works together with pressure switch. Opens a valve to vent air whenever switch stops compressor. Closes valve when switch re-starts unit.

Combination Unloader and Check Valve (e.g. Load Genie, Nos. 4X996 to 4X999). As pump stops, valve senses lack of air flow and relieves pressure in discharge line. As pump starts, vent closes and check valve reopens.

Constant Speed Unloaders allow pump to operate unloaded (running, but not compressing air) when tank pressure reaches pre-set level. Used on continuous run compressors. 2 types:

Pilot Valve Unloader holds pump intake valve open when pre-set pressure is reached.

Load Genie Continuous Run Unloader (Nos. 5X709 and 5X994) vents pump discharge line to the open air whenever tank pressure reaches pre-set level. Also acts as check valve.

AIR COMPRESSOR ACCESSORIES

Magnetic Starter. An electrically operated switch used to control the compressor motor and provide thermal protection. Activated by the pressure switch.

Automatic Tank Drain Valve (No. 2Z166). Installed at bottom of tank; opens briefly during each pumping cycle to release moisture condensed from the air.

Belt Guard. Metal or plastic shield around pump flywheel, belt and motor sheave to prevent hands or clothing from getting caught in moving parts. Recommended for all installations. Necessary to comply with OSHA requirements.

Low Oil Level Shutdown Switch. Installed in compressor crankcase and wired to magnetic motor starter.

AIR SYSTEM COMPONENTS TERMINOLOGY

Filters. A device connected into the air line to trap solid or liquid particles that can damage tools, contaminate sprays.

Pressure Regulator. An adjustable valve used to reduce air pressure from tank level to that required by air-using equipment, and maintain it automatically. May be installed at the tank or at the connection for the air-operated equipment.

Lubricator. A device for constant feeding of oil mist into the air stream for lubrication of air powered equipment or tools. Not used for spraying applications.

Air Cleaning Equipment. Air taken from the atmosphere by the compressor also contains many impurities including water vapor, dust, oil and smoke. These contaminants can cause rapid wear, clogging and malfunctioning of air tools, cylinders and valves. The following types of air cleaning equipment will help insure the efficient performance of air-operated equipment.

Aftercoolers remove water vapor from the compressed air by lowering the temperature of

the air and causing the water vapor to condense into droplets for easy removal. They can be piped between the pump and tank on the air compressor. There are two types:

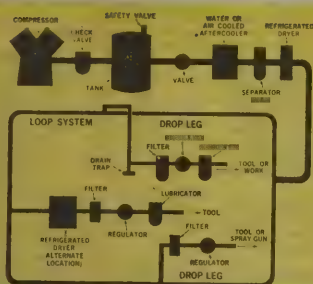
Watercooled uses water to cool the compressed air.

Aircooled uses the ambient air to cool the compressed air.

Refrigerated Air Dryers reduce the compressed air temperature as low as 35°F to remove greater amounts of water than aftercoolers. Inlet air temperature should not exceed 120°F. Piping dryers closer to the work allows for cooling only that portion of air needed to do a specific function. Total system air need not be cooled if dry air is not needed. Air or water cooled aftercoolers may be used to precool compressed air before it enters the dryer.

Separator/Drain Trap. Normally located downstream from aftercoolers to remove condensed water and contaminants.

GUIDE TO PLACEMENT OF AIR SYSTEM COMPONENTS



Proper equipment placement in a compressed air system assures maximum efficiency and long life. For example, a compressed air filter works best when located as near as possible to point at which air is working. This minimizes the chances of air picking up additional system contaminants, such as pipe scale.

Loop System (see diagram) allows best supply of air to work stations as air can approach from two directions and not be drawn off by prior work stations, as often happens on straight line systems that dead-end.

Drop Leg (see diagram) is the piping from main line to work station. Take-off should be from top of pipe down to work station, which should have a tee with drain valve or trap extending below tee to take away contaminants.

PIPING REQUIREMENTS FOR AIR DISTRIBUTION SYSTEMS

pipe size used should be large enough to keep air pressure drop between the tank and the point of use to a minimum. All piping should slope to an accessible moisture drain point.

The main air line should not be smaller than the compressor outlet size. For long lines, sizes shown at right are recommended.

Outlets should be taken from the top of the main line (tees facing up) to keep moisture out.

Check all piping and fittings regularly to avoid leaks in the system. Filters, regulators and other accessories described above should also be properly maintained.

PIPE SIZES FOR COMPRESSED AIR LINES

Air CFM	Length of Pipe Lines in Feet							
	25	50	75	100	150	200	250	300
1-5	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
6-10	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
11-15	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
16-20	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
21-25	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
26-30	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
31-35	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
36-40	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
41-50	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
60-79	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
80-100	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"

VOLUME OF AIR FOR CYLINDERS

cubic feet for single acting. For double acting, multiply by 2. Multiply by cycles/minute to get CFM.

Cyl. Size	Stroke (Inches)					
	2	4	6	8	10	12
1/4"	.00364	.00727	.0109	.0145	.0182	.0218
3/8"	.00568	.01137	.0171	.0228	.0284	.0343
1/2"	.00818	.0164	.0246	.0327	.0409	.049
3/4"	.0112	.0222	.0335	.0445	.0556	.0666
1"	.0145	.029	.0435	.058	.0725	.087
1 1/4"	.0228	.045	.0675	.09	.114	.136
1 1/2"	.0328	.065	.0975	.13	.164	.197

AIR FLOW (CFM) THROUGH ORIFICE OR JET

PSI	Orifice or Jet Size			
	1/64"	1/32"	1/16"	1/8"
10	.084	1.36	5.45	21.8
25	.133	2.16	8.6	34.5
50	.225	3.64	14.5	58.2
80	.330	5.32	21.2	85.0
100	.400	6.45	25.8	103.0
120	.470	7.58	30.2	121.0
150	.570	9.20	36.7	147.0
200	.760	12.20	48.7	195.0

GUIDE TO COMPRESSOR SELECTION

Under normal conditions, this information should provide a satisfactory compressor selection guide. Unusual operating conditions can require a larger unit than calculated. When in doubt, select a larger unit to insure adequate initial capacity and provide for the future.

Determine air requirement: Add up the Free Air CFM requirements for all of the air-powered devices that the compressor will be required to operate at the same time. If manufacturers' data is not available, the tables below may be used as an approximate guide. To this total, add 25% or more to allow for system variables and provide capacity for future needs.

Determine pressure requirement: The PSI requirement of the highest-pressure device to be operated is the level at which the compressor must operate. If this pressure exceeds 100 PSI,

a two-stage unit must be used. If not, a single-stage unit is preferable. Do not operate at a higher pressure than necessary to do the job.

Determine type of operation control (Constant speed unloader or pressure switch control): If air usage is continuous and relatively heavy, constant speed control operation is preferable. Also, if air usage for short periods will exceed 50% of the compressor's Free Air CFM capacity, constant speed control should be used. Where duty is light or intermittent, pressure switch control saves power and reduces wear.

Power source: Select model with three-phase motor in preference to single-phase unit, if three-phase power is available. Three phase motors are more reliable and efficient. If remote operation is involved, select a gasoline engine powered unit.

EQUIPMENT AIR REQUIREMENT AVERAGES

Always use free air (CFM) and pressure (PSI) specifications from nameplate on the device, or from the manufacturer. CFM free air figures below are averages and should not be considered accurate for any specific brand.

INDUSTRIAL AIR REQUIREMENT AVERAGES

CFM requirements based on industrial tools being used 25% of the time.

Miscellaneous Portable Tools at 70 to 90 PSI Range	CFM	Miscellaneous Portable Tools at 70 to 90 PSI Range	CFM
Drill, 1/16 to 3/8"	6.3	Burring Tool, Small	3.8
Drill, 3/8 to 5/16"	8.8	Burring Tool, Large	6.0
Screwdriver, #2 to #6 Screw	3.0	Rammers, Small	3.3
Screwdriver, #6 to 5/16" Screw	6.0	Rammers, Medium	8.5
Tapper, to 3/8"	5.0	Rammers, Large	10.0
Nutsetters, to 3/8"	6.0	Backfill Tapper	6.3
Nutsetters, to 3/4"	7.5	Compression Riveter	.2 cu. ft. per cycle
Impact Wrench, 1/4"	3.8	Air Motor, 1 HP	6.3
Impact Wrench, 3/8"	5.0	Air Motor, 2 HP	12.5
Impact Wrench, 1/2"	7.5	Air Motor, 3 HP	18.8
Impact Wrench, 3/4"	8.8	Air Motor Hoist,	1 cu. ft. per ft. of lift
Impact Wrench, 1 1/4"	13.8		
Die Grinder, Small	3.8	Paint Spray Gun	5.0
Die Grinder, Medium	6.0	Sealing Hammer	3.0
Horizontal Grinder, 2"	5.0	Chipping Hammer	7.5
Horizontal Grinder, 4"	15.0	Riveting Hammer	7.5
Horizontal Grinder, 6"	15.0	Circular Saw, 8"	11.3
Horizontal Grinder, 8"	20.0	Circular Saw, 12"	16.3
Vertical Grinders and Sanders, 5" Pad	8.8	Lightweight Chain Saw	7.0
Vertical Grinders and Sanders, 7" Pad	15.0	Heavy Duty Chain Saw	21.8
Vertical Grinders and Sanders, 9" Pad	17.5		

AUTOMOTIVE EQUIPMENT AIR REQUIREMENT AVERAGES

CFM requirements based on normal usage in automotive applications.

Equipment PSI Range	Portable Tools	CFM	Equipment PSI Range	Portable Tools	CFM
70-100	Air Filter Cleaner	3.0*	125-150	Tire Inflation Line	1.5
70-100	Body Polisher	2.0*	125-150	Tire Spreader	1.0
70-100	Body Sander, Orbital	5.0*	90-100	Air Hammer	4.0*
70-100	Brake Tester	3.5	90-100	Tire Hammer	12.0
70-100	Carbon Remover	3.0*	125-150	Bead Breaker	12.0
90-100	Dusting Blow Gun	2.5	90-100	Spring Oiler	4.0
70-90	Drill, 1/16" to 3/8"	4.0*	90-100	Spray Gun Engine Cleaner	5.0*
70-90	Impact Wrench, 3/8" sq. dr.	2.0*	90-100	Production Paint Spray Gun	8.5*
70-90	Impact Wrench, 1/2" sq. dr.	3.5*	90-100	Touch-Up Paint Spray Gun	3.5*
70-90	Impact Wrench, 3/4" sq. dr.	7.5*	90-100	Undercoat Paint Spray Gun	19.0*
70-90	Impact Wrench 1" sq. dr.	10.0*	120-150	Grease Gun	3.0*
70-90	Die Grinder	5.0*	145-175	Hydraulic Lift	6.0†
90-100	Vertical Disc Sanders	10.0*	125-150	Hydraulic Floor Jack	6.0
90-100	Filing/Sawing Machine, Small	3.0*	120-150	Pneumatic Garage Door	3.0
90-100	Filing/Sawing Machine, Large	5.0*	90-100	Radiator Tester	1.0
90-100	Burring Tool	5.0*	70-100	Transmission/Differential Flushers	3.0
125-150	Tire Rim Stripper	6.0	70-100	Fender Hammer	9.0*
125-150	Tire Changer	1.0	70-100	Medium Duty Sander	40.0*

(*) These devices are considered as continuously operating.

(†) This is for 8,000 lbs. capacity. For each additional 1,000 lbs. add .65 CFM.

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

SINGLE-STAGE 1-CYLINDER COMPRESSOR PUMPS

1/4 to 1 HP Pumps for New and Replacement Applications. Compact, Dependable Design

A

No. 2Z157
\$56.09

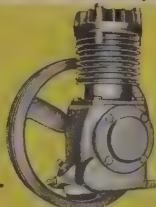
1/4, 1/3, 1/2 HP
2.7 CFM
DISPLACEMENT



B

No. 1Z943
\$71.00

1/2, 3/4 HP
4.9 CFM
DISPLACEMENT



B

No. 2Z203
\$78.15

3/4, 1 HP
5.85 CFM
DISPLACEMENT

Same Speedaire pumps used on many built-up stock compressors, giving outstanding service. See table below for performance data. Compact, dependable design for maximum efficiency and economy. Cast iron crankcase. Die cast aluminum cylinders integrally cast to iron-alloy sleeve for greater efficiency, cooling and ser-

vice life. Aluminum-alloy pistons, Swedish steel reed-type valves steel-backed bronze bearings. Splash oil lubrication. Cast iron fan-type flywheel, except No. 2Z157 which is stamped steel. For applications which require a constant speed unloader control, use No. 5X709 Load Genie. See Index under Unloader Control.

SINGLE-STAGE, 1-CYLINDER PUMP PERFORMANCE

A	1/4 HP Fig. A No. 2Z157					1/3 HP Fig. A No. 2Z157					1/2 HP Fig. A No. 2Z157					1 HP Fig. B No. 2Z203				
	PSI	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave			
50	1.90	1.40	685	3 3/8"	2.40	1.70	865	4 1/2"	—	—	—	—	—	—	—	—	—			
75	1.55	1.00	555	2 7/8"	2.00	1.30	720	3 3/4"	2.70	1.60	971	5 1/8"	2Z157	9 1/4"	1—A					
100	1.40	.85	500	2 3/8"	1.80	1.10	645	3 3/8"	2.60	1.40	935	4 7/8"	1Z943	10 1/4"	1—A					
125†	1.30	.75	470	2 1/2"	1.70	.95	610	3 1/4"	2.50	1.30	899	4 3/4"	2Z203	10 1/2"	1—A					
150†	1.20	.62	430	2 1/4"	1.55	.80	555	2 7/8"												

B	1/2 HP Fig. B No. 1Z943					3/4 HP Fig. B No. 1Z943					3/4 HP Fig. B No. 2Z203					1 HP Fig. B No. 2Z203				
	PSI	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave			
50	3.25	2.30	635	3 3/8"	4.90	3.50	950	5 1/2"	4.90	3.60	783	4 1/2"	—	—	—	—	—			
75	2.90	1.90	565	3 3/4"	4.35	2.80	845	4 1/2"	4.35	2.80	695	4	5.85	3.70	935	5 3/8"				
100	2.70	1.65	525	3	4.10	2.50	800	4 1/2"	4.10	2.50	656	3 3/4"	5.40	3.30	863	5				
125†	2.60	1.40	505	2 7/8"	3.90	2.10	760	4 1/2"	3.90	2.10	625	3 3/8"	5.20	2.80	830	4 3/4"				
150†	2.50	1.30	485	2 3/4"	3.70	1.90	720	4 1/2"	3.70	1.90	592	3 3/8"	4.80	2.50	767	4 3/8"				

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Quantity Prices Available—Ask Your Grainger Salesman

Motor HP Req'd.	Cylinder Bore	Stroke	Rotation	Outlet IPT	H	Dimensions W	D	Mtg. Holes C to C	Stock No.	Retail	Each	Shpg. Wt.
1/4-1/2	1 1/4"	2"	CCW	3/8"	10 3/4"	9 1/4"	7 1/4"	5 1/2" x 2 1/2"	2Z157	\$80.00	\$56.09	17
2-3/4	2 1/2"	2	CCW	3/8"	10 3/4"	10 1/2"	7 1/4"	5 1/2" x 2 1/2"	1Z943	102.00	71.00	25
4-1	2 3/4"	2	CCW	3/8"	10 3/4"	10 1/2"	7 1/4"	5 1/2" x 2 1/2"	2Z203	112.00	78.15	27

† Sheave sizes are OD to provide proper pump speed with 1725 RPM motor. (†) Intermittent duty at 125 and 0 PSI. (§) Rotation facing flywheel.

ADJUSTABLE RELIEF VALVE



Brass relief valve set at 55 PSI, adj. to 125 PSI. For air, water, and fluids not affecting neoprene seat. Inlet and outlet IPT are same.

PT	Stock No.	Retail	Each	Lots 10	Wt.
2	1X624	\$4.60	\$3.48	\$3.23	8 oz.
4	2X318	6.35	4.72	4.38	12 oz.

SPEEDAIRE RELIEF VALVE



Small, compact pop relief valve. Adj. from 25 to 200 PSI. Set at 100 PSI. 3/4" male inlet. 2 1/4"x3/4". Shpg. wt. 4 oz.

No. 2X947. Retail \$3.27. Each \$2.01; lots 4, \$1.74

Spray Paint In 32 Industrial Colors
Fast-drying, durable Dem-Kote. See Index.

ADDITIONAL COPIES OF GRAINGER MOTORBOOK AVAILABLE

Are there other people in your organization who qualify for a Grainger MotorBook? If so, contact your local Grainger Sales Office/Warehouse for copies, or write to: W. W. Grainger, Inc., Dept. F13, 5959 W. Howard St., Chicago, Illinois 60648.

SINGLE-STAGE 1 & 2-CYLINDER COMPRESSOR PUMPS

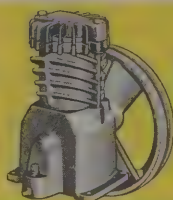
1 & 2-Cylinder Pumps for Continuous Duty Applications up to 100 PSI, Intermittent Duty up to 150 PSI

A

1/3 to 3/4 HP
4.8 CFM Max.

1-Cyl. No. 22498

\$51.67



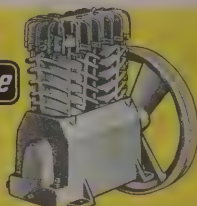
Speedaire

B

1 to 3 HP
14.1 CFM Max.

2-Cyl. No. 22499

\$95.58



Simplified four-piece design, one and two-cylinder pumps, with cast iron crankcase and cylinder, aluminum head with deep finning for maximum cooling. For applications up to 100 PSI continuous and 125-150 PSI intermittent duty. Quality construction features include needle roller bearings, Swedish steel reed-type valves, which are non-clogging and self-cleaning. Balanced ductile-iron crankshaft, single groove fan-type flywheel and splash-type lubrication. Pumps are also well-suited for vacuum operation with vacuum adapter kit Nos. 22651 & 22652 listed below. For hospitals, photo processing, printing and packaging, bench tools and material handling equipment. See vacuum table below for performance figures as a vacuum pump.

Proven dependable design provides high performance and economy. No. 22498 has 8 3/4" OD A-section flywheel. No. 22499 & 22630 have 10" OD B-section flywheel. See table below for performance with 1725 RPM motors. 3/8" IPT discharge. CCW rotation facing flywheel.

SINGLE-STAGE, 1 & 2-CYLINDER PUMP PERFORMANCE

PSI	1/3 HP Fig. A NO. 22498				1/2 HP Fig. A NO. 22498				3/4 HP Fig. A NO. 22498				1 HP Fig. B NO. 22499			
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave
25	3.80	2.75	740	4"	4.60	3.30	890	4 1/2"	4.80	3.50	935	4 3/4"	6.90	5.00	465	3"
50	3.35	2.15	660	3 1/2"	4.05	2.60	790	4	4.60	2.90	890	4 1/2"	5.90	4.10	435	2 1/2"
100	2.95	1.50	575	3 1/2"	3.55	1.80	690	3 1/2"	3.80	2.00	740	3 3/4"	5.50	3.10	400	2 1/2"
125†	2.75	1.25	530	2 3/4"	3.30	1.50	640	3 1/4"	3.70	1.70	715	3 3/4"	5.25	2.80	385	2 1/4"
150†	2.50	1.00	490	2 3/4"	3.05	1.20	590	3	3.55	1.50	690	3 1/2"	5.10	2.50	370	2 3/4"

PSI	1 1/2 HP Fig. B NO. 22499				2 HP Fig. B NO. 22499				2 HP Fig. B NO. 22630				3 HP Fig. B NO. 22630			
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave
25	8.95	7.00	650	3 3/4"	10.70	8.40	780	4 1/2"	13.6	10.60	860	5"	14.1	10.90	866	4 1/2"
50	8.30	5.80	605	3 1/2"	10.40	7.30	755	4 1/2"	12.9	9.30	820	4 3/4"	14.0	9.90	855	4 1/4"
100	7.70	4.40	560	3 1/4"	10.10	5.70	735	4 1/4"	12.2	6.70	775	4 1/2"	13.9	8.10	860	4 1/4"
125†	7.35	3.90	535	3 1/4"	9.80	5.20	715	4 1/4"	11.5	5.50	735	4 1/4"	13.9	7.30	850	4 1/4"
150†	7.15	3.40	520	3	9.50	4.50	690	4	—	—	—	—	—	—	—	—

(†) Intermittent duty. (*) Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP Required	Cylinder Bore	Stroke	Outlet NPT	H	Dimensions W	D	Mtg. Holes C to C	Stock No.	Retail	Each	Shpg. Wt.
1/3-3/4	2 3/4"	1 1/2"	3/8"	9 1/4"	8 1/4"	5 3/4"	5 1/2" x 3 3/8"	22498	\$87.00	\$51.67	21
1-2	2 3/4"	2"	3/8"	11 1/4"	11"	6 1/2"	6 1/2" x 5 7/8"	22499	161.00	95.58	37
2-3	3"	2"	3/8"	11 1/4"	11"	6 1/2"	6 1/2" x 5 7/8"	22630	227.00	135.05	40

VACUUM ADAPTER KITS

Vacuum adapter kits listed below include all components and instructions for converting above compressor pumps into 27 In./Hg maximum vacuum pumps.

Single-Cylinder Vacuum Adapter Kit. For converting compressor pump No. 22498 into vacuum pump. Includes cylinder head, gasket, adapter plate and bolts. Shpg. wt. 1 lb.
No. 22651. Retail \$9.50. Each.....\$5.25

Twin-Cylinder Vacuum Adapter Kit. Converts compressor pump Nos. 22499 & 22630 into vacuum pumps. Includes cylinder head, gasket adapter plate. Shpg. wt. 1 lb.
No. 22652. Retail \$9.50. Each.....\$5.25

PERFORMANCE AS VACUUM PUMP

Vac. In./Hg	3/4 HP No. 22498 2 3/4" Motor Sheave*		1 HP No. 22499 2 1/2" Motor Sheave*		1 1/2 HP No. 22630 2 1/2" Motor Sheave*	
	CFM Delivery	Pump RPM	CFM Delivery	Pump RPM	CFM Delivery	Pump RPM
5	2.30	1080	4.85	770	5.82	800
10	1.95	1075	4.40	770	5.28	800
15	1.55	1075	3.10	765	3.72	795
20	.95	1075	2.40	765	2.88	795
25	—	1075	1.05	765	1.26	795

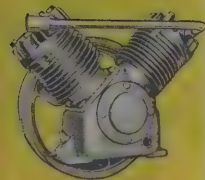
(*) Based on 3450 RPM motor; sheave sizes measured in outside diameters.

SINGLE-STAGE 2 & 3-CYLINDER COMPRESSOR PUMPS

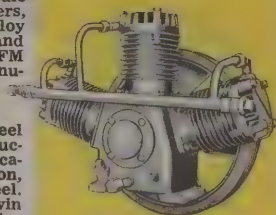
3/4 to 3 HP. 3.7 to 18.2 CFM Displacement, up to 150 PSI. Speedaire Brand

Speedaire

Heavy-duty, V-type 2 and 3 cylinder pumps feature die cast aluminum cylinders, integrally cast to iron alloy sleeve for greater efficiency, cooling and service life. Four sizes, up to 18.2 CFM displacement. For 100 PSI max., continuous duty, 125 & 150 PSI intermittent. Cast iron crankcase. Timken tapered roller main bearings. Aluminum pistons and connecting rods. Swedish steel reed-type valves, counter balanced ductile iron crankshaft. Splash type lubrication. Visual oil level gauge. Cast iron, dynamically balanced fan-type flywheel. Rotation is CCW, facing flywheel. Twin cylinder units have $\frac{3}{8}$ " IPT; 3 cylinder unit, $\frac{1}{2}$ " IPT. For applications which require constant speed unloader control, use No. 5X709 Load Genie, listed below.



3/4 to 2 HP Pump



2 to 3 HP Pump

SINGLE-STAGE, 2 & 3-CYLINDER PUMP PERFORMANCE

PSI	3/4 HP 2-Cyl. No. 22050					1 HP 2-Cyl. No. 22050					1 HP 2-Cyl. No. 12944					1 1/2 HP 2-Cyl. No. 12944				
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	
50	5.00	3.60	900	5 1/2"		—	—	—	—		6.60	4.75	645	3 3/4"		10.00	7.20	975	5 5/8"	
75	4.40	2.80	790	4 1/2"		—	—	—	—		5.85	3.80	570	3 1/4"		8.90	5.80	865	5	
100	4.10	2.50	735	4 1/4"		5.40	3.30	970	5 3/8"		5.50	3.30	535	3 1/8"		8.40	5.10	820	4 3/4"	
125†	3.90	2.10	700	4		5.20	2.80	935	5 5/8"		5.30	2.90	515	3		8.00	4.30	780	4 1/2"	
150†	3.70	1.90	665	3 3/8"		4.80	2.50	865	5		5.05	2.60	490	2 3/4"		7.70	4.00	750	4 3/8"	

PSI	2 HP 2-Cyl. No. 12945					2 HP 3-Cyl. No. 32170					3 HP 3-Cyl. No. 32170					FLYWHEEL DATA		
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Pump No.	O.D.	No. & Type Belt
50	13.0	9.30	960	5 1/2"		16.8	13.0	895	6 5/8"		—	—	—	—		2Z050	10 1/8"	1-A
75	11.5	7.50	850	4 3/8"		14.1	10.5	750	5 5/8"		—	—	—	—		1Z944	10 1/4"	2-A
100	10.9	6.80	805	4 3/4"		12.1	8.3	645	4 1/2"		18.2	12.6	970	7"		1Z945	10 1/8"	2-A
125†	10.5	5.80	775	4 1/4"		10.9	7.1	580	4 1/4"		16.3	10.8	870	6 3/4"		3Z170	12 5/8"	2-A
150†	10.0	5.20	740	4 1/4"		—	—	—	—		—	—	—	—				

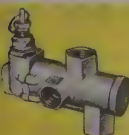
† Intermittent duty at 125 & 150 PSI, use 2-stage pump for continuous duty.
 * Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP	No. Cyl.	Cylinder Bore x Stroke	Dimensions H W D			Mtg. Holes C to C	Stock No.	Retail	Each	Shpg. Wt.
3/4-1	2	1 3/4" x 2"	10 1/4"	14 1/8"	8"	6 5/8" x 2 3/4"	22050	\$171.00	\$119.49	31
1-1 1/2	2	2 3/8" x 2"	10 3/8"	14 3/4"	8"	6 5/8" x 2 3/4"	12944	182.00	132.27	37
2	2	2 5/8" x 2"	10 3/8"	14 3/4"	8"	6 5/8" x 2 3/4"	12945	195.00	135.93	37
2-3	3	2 5/8" x 2"	12 1/8"	17 5/8"	11"	7 x 2 3/4"	32170	309.00	216.15	52

LOAD GENIE CONTINUOUS-RUN UNLOADER CONTROLS

Brass Construction. Flow Rates up to 125 CFM, Pressures to 250 PSI. 1/2 & 1 1/4" FPT Inlet and Outlet



\$15.01

No. 5X709
 Lots 3

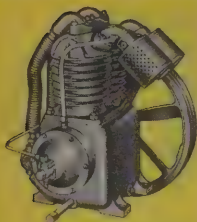
Completely self-contained, continuous run, manifold vent unloaders; incorporate the three components required in conventional continuous run control systems—pilot valve, check valve and suction or vent unloader valve. Convert any pressure switch control compressor to constant speed unloader type. Can be universally applied to any gas engine driven compressor, and to compressor applications where air consumption is steady and exceeds 50% of free air delivery. Control is preset to cut-in at 100 PSI, cut-out at 110 PSI. Range and differential can be adjusted to suit needs. Working range—50 to 135 PSI with provision for 110 to 250 PSI range. Stainless springs, Teflon seats. Control Devices brand.

Max. CFM Flow Rate	Female NPT Openings Inlet Outlet Vent Outlet			Brass Body	Dimensions (L x H)	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
20	1/2"	1/2"	3/8"	Forged	4 3/8" x 2 1/8"	5X709	\$19.75	\$15.80	\$15.01	2
125	1 1/4"	1 1/4"	1"	Cast	7 1/2" x 5 1/2"	5X994	69.95	55.96	53.16	6

SEE WARRANTY INFORMATION ON PAGE 684

SINGLE-STAGE, 2 & 4-CYLINDER COMPRESSOR PUMPS

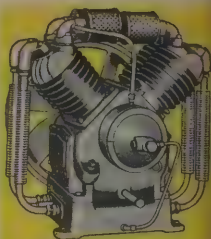
3 to 10 HP. 17.6 to 78.7 CFM Displacement. 50 to 100 PSI, Continuous Duty



2-CYLINDER

Speedaire

High volume 2 and 4-cylinder pumps for pressures up to 100 PSI maximum, continuous duty. 17.6 to 78.7 CFM displacement. Suitable for air tools, paint spraying, laundries, car-washes. Cast iron crankcase and integral head. Domed aluminum pistons. Timken tapered roller main bearings. Large Swedish steel disc-type valves. Centrifugal unloader for loadless starting. Splash lubrication, visual oil level gauge. Rotation is CCW, as seen facing flywheel. $\frac{3}{4}$ " IPT air outlet on 2-cylinder model, 1" IPT on 4-cylinder model. Drive belts, motor pulleys not incl.; refer to Note (*) below. For applications needing constant speed unloader, use No. 5X994 Load Genie; see Index under Unloader Control.



4-CYLINDER

SINGLE-STAGE, 2 & 4-CYLINDER PUMP PERFORMANCE

PSI	3 HP 2-Cyl. No. 3Z172					5 HP 2-Cyl. No. 3Z172					7½ HP 4-Cyl. No. 3Z241					10 HP 4-Cyl. No. 3Z241				
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	
50	25.1	22.1	658	6"		38.3	33.8	1000	9½"		57.2	45.0	746	8½"		78.7	61.9	1000	11½"	
75	21.1	17.4	549	5"		34.5	29.2	908	8½"		54.5	40.8	711	7½"		75.0	58.1	980	10½"	
100	18.7	14.4	490	4½"		33.2	25.4	836	7½"		51.8	36.1	676	7½"		68.7	47.8	896	9½"	
125†	17.6	12.5	459	4½"		30.0	22.8	788	7½"		50.6	33.5	660	7½"		66.6	44.2	870	9½"	

(*) Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

(†) Intermittent duty at 125 PSI. Use 2-stage pump listed on nearby page for continuous duty.

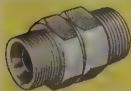
AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP	Cylinder Bore & Stroke	Pump Flywheel* Diameter	No. Cyl.	Mounting Holes	Dimensions H W D			Stock No.	Retail	Each	Shpg. Wt.
3 & 5	3½"x3"	16½"	2	8½"x5½"	19"	18"	20"	3Z172	\$628.00	\$469.59	141
7½ & 10	3½"x3"	19½"	4	13½"x8½"	24	25	21½"	3Z241	1253.00	938.53	294

(*) Flywheel on No. 3Z172 has two $\frac{3}{8}$ " grooves, $1\frac{1}{16}$ " OC for 4L or 5L belts. Flywheel on No. 3Z241 has two $\frac{3}{4}$ " grooves, $\frac{3}{4}$ " OC for 5L belts.

LOAD-GENIE COMBINATION UNLOADER & CHECK VALVE

Eliminates Need for Expensive Centrifugal and Other Unloading Devices. 250 PSI Max.



\$3.36

Positive, reliable, inexpensive method for unloading discharge manifold of any compressor—eliminates need for expensive centrifugal and other conventional unloading devices, cumbersome tubing and fittings. Unloads manifold any time air flow stops; not dependent upon power source or tank pressure. Operates in any position. For pressure switch or constant-speed operation. Max. working pressure 250 PSI. Brass body, stainless steel springs, Teflon seals. Control Devices brand.

Inlet*	MPT Outlet	Flow Range Free Air CFM	Dimensions Hex Sizes	Length	Mfrs. Model	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
3/8" OD	½"	1.0 to 6.0	¾" HX	1½"	CA-6	4X996	\$4.65	\$3.69	\$3.36	3 oz.
1/2" OD	¾"	3.0 to 12.0	1½" HX	1½"	CA-12	4X997	5.20	4.12	3.75	4 oz.
3/4" OD	1"	8.0 to 24.0	1 HX	2½"	CA-24	4X998	7.30	5.76	5.25	9 oz.
3/4" OD	1"	15.0 to 48.0	1½" HX	2½"	CA-48	4X999	9.45	7.49	6.82	14 oz.

(*) Compression tube inlet size, OD.

BRONZE AIR CHECK VALVES FOR AIR COMPRESSORS



\$3.48

No. 5X780, Lots 5

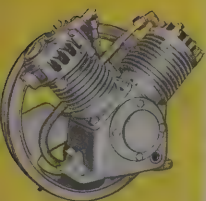
Noiseless, dome-shaped positive-seating Teflon discs for maximum air flow. Valves open at 1 to 2 PSI; withstand up to 250 PSI back pressure, temperatures up to 500° F. Air check valves can also be used on water, oil and gas lines, including Butane or Propane. Globe valve body with threaded end cap; both ends tapped. Control Devices brand.

BRONZE AIR CHECK VALVES

IPT Size	Stock No.	Retail	Each	Lots 5 Asst'd	Shpg. Wt.
1/4"	5X780	\$5.15	\$3.75	\$3.48	4 oz.
3/8"	5X781	6.28	4.94	4.59	8 oz.
1/2"	5X782	8.75	6.98	6.49	12 oz.
3/4"	5X783	9.80	8.32	7.74	1

TWO-STAGE 2 & 3-CYLINDER COMPRESSOR PUMPS

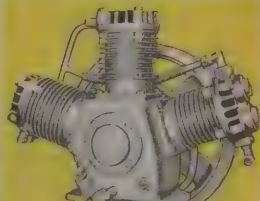
3/4 to 2 HP. 3.70 to 11.50 CFM Displacement. 100 to 175 PSI



2-CYLINDER

Speedaire

Designed for 100 to 175 PSI applications. See performance table below based on 1725 RPM motor. Counter-balanced, ductile iron crankshaft. Timken tapered roller bearings. Die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency, cooling and service life. Aluminum pistons. Swedish steel disc and reed-type valves. Splash lubrication, visual oil-level gauge. Balanced, fan-type flywheel rotates CCW facing flywheel. Drive belts not included, refer to note* below. For applications which require constant speed unloader control, see Index under Unloader Control.



3-CYLINDER

TWO-STAGE, 2 & 3-CYLINDER SPEEDAIRE PUMP PERFORMANCE

PSI	3/4HP 2-Cyl. No. 3Z174					1 HP 2-Cyl. No. 3Z174					1 1/2 HP 3-Cyl. No. 3Z176					2 HP 3-Cyl. No. 3Z176				
	Free Disp. CFM	Air CFM	Pump RPM	1725* Motor Sheave		Free Disp. CFM	Air CFM	Pump RPM	1725* Motor Sheave		Free Disp. CFM	Air CFM	Pump RPM	1725* Motor Sheave		Free Disp. CFM	Air CFM	Pump RPM	1725* Motor Sheave	
100	5.20	4.10	830	6 1/8"		6.30	5.00	1000	7 1/4"		8.80	7.10	710	5 1/8"		11.50	9.20	920	6 5/8"	
125	4.80	3.70	770	5 1/2"		5.90	4.60	945	6 3/4"		8.10	5.60	645	4 5/8"		10.80	8.40	860	6 1/4"	
150	4.20	3.10	675	4 3/4"		5.10	3.80	815	5 1/2"		7.50	5.30	600	4 1/4"		9.90	7.40	790	5 3/4"	
175	3.70	2.60	590	4 1/4"		4.90	3.50	780	5 5/8"		7.10	5.00	565	4 1/8"		9.30	6.50	745	5 5/8"	

* Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP	Cylinder Bore & Stroke	Pump Flywheel* No. Diam. Cyl.	Mounting Holes	Dimensions H W D			Stock No.	Retail	Each	Shpg. Wt.
1/4 & 1	2 5/8 & 1 3/4 x 2"	12 5/8" 2	6 5/8 x 2 3/4"	10 1/2"	15 1/4"	8 1/16"	3Z174	\$244.00	\$170.60	47
1/2 & 2	2 5/8, 2 5/8 & 1 3/4 x 2	12 5/8" 3	7 x 2 3/4"	12 9/16"	17 5/8"	11"	3Z176	328.00	229.46	54

* All flywheels have two 1/2" grooves, 1 1/16" OC for 4L belts.

COMPRESSOR IN-TANK CHECK VALVES

Economical and reliable in-tank check valves for use on compressors or water, oil and gas tanks. For industrial and commercial applications. Economical in cost without sacrificing strength or durability. Manufactured from steel and plated with zinc dichromate; brass-like appearance. Withstands 96-hour salt spray test specified under Federal Standard QQ-Z-325B1. Teflon® poppet, stainless steel springs. Tested to 450° F. for water, gas or oil; rated 500 PSI maximum pressure. Nos. 6X207, 6X208, 6X209, 6X210 and 6X211 have female NPT inlets and male NPT into tank. All have tapped 1/8" FPT ports for unloader, with removable plugs. Inlets on Nos. 6X212, 6X213, 6X214, 6X215 and 6X216 are threaded to accept compression fitting, eliminating need for an adapter for pipe thread-to-compression fitting thread. All have 1/8" FPT tapped unloader port; port has removable plug on all except No. 6X212, which has no tapped port.

FOR USE WITH IRON PIPE **A**

National Pipe Thread (NPT)
On Inlet and Outlet

No. 6X207
3/8" FPT
x 1/2" MPT
\$3.42
Lots 3



Speedaire

FOR USE WITH TUBING **B**

National Pipe Thread on Outlet,
Thread for Compression
Fitting on Inlet

No. 6X212
3/8" Inlet OD
x 3/8" MPT
\$1.60
Lots 3



VALVES FOR USE WITH IRON PIPE—NATIONAL PIPE THREAD ON BOTH ENDS

g.	Thread Size & Type*		Dimensions		Stock No.	Retail	Each	Lots 3	Shpg. Wt.
	Inlet	Outlet	Hex Sizes	Length					
	3/8" FPT	1/2" MPT	7/8"	2 3/4"	6X207	\$4.80	\$3.60	\$3.42	1 oz.
	1/2" FPT	1/2" MPT	1"	3"	6X208	5.75	3.94	3.74	3 oz.
	3/4" FPT	3/4" MPT	1 1/8"	3 1/4"	6X209	7.50	5.63	5.34	4 oz.
	1" FPT	1" MPT	1 1/2"	3 3/8"	6X210	14.50	10.88	10.33	8 oz.
	1 1/4" FPT	1 1/4" MPT	1 7/8"	3 7/8"	6X211	26.50	19.88	18.88	1 1/4 oz.

VALVES FOR USE WITH TUBING—INLET THREADED FOR COMPRESSION FITTING

3/8" **	3/8" MPT	1 1/8"	2 3/8"	6X212	2.24	1.68	1.60		1 oz.
1/2" **	1/2" MPT	1"	2 7/8"	6X213	5.00	3.75	3.56		3 oz.
3/4" **	1/2" MPT	1"	3"	6X214	5.20	3.90	3.71		3 oz.
3/4" **	3/4" MPT	1 1/8"	3 3/8"	6X215	6.50	4.88	4.63		4 oz.
3/4" **	1" MPT	1 1/8"	3 3/8"	6X216	10.25	7.69	7.30		8 oz.

FPT—Female Pipe Thread; MPT—Male Pipe Thread. (**) Compression tube inlet size, OD.

SEE WARRANTY INFORMATION ON PAGE 684

TWO-STAGE, 2 & 4-CYLINDER COMPRESSOR PUMPS

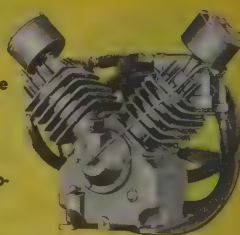
3 to 10 HP, 2-Stage Pumps. 12.94 to 47.80 CFM Displacement. 100 to 175 PSI



**2-Cylinder
No. 3Z492**

Speedaire

- Exclusive, self-cleaning multiple reed-type valve mechanism
- Die cast aluminum head assemblies for faster heat dissipation and cooler running temperatures
- Fan-type cast iron flywheels provide air flow for cooling heads
- Finned intercoolers
- Cast iron cylinders and crankcases
- Centrifugal unloaders



**4-Cylinder
No. 3Z493**

Quality Speedaire compressor pumps are heavy duty, commercially rated for new or replacement needs. Designed for 100 to 175 PSI applications—see performance table below. Die cast aluminum head assembly for faster heat dissipation and cooler running temperatures. Exclusive, self-cleaning multiple reed-type valve mechanism for longer life, low maintenance and greater efficiency. Aluminum low pressure piston, cast iron high pressure piston and cylinder

block. Fan-type cast iron flywheel provides air flow for cooling heads. Counterbalanced, ductile iron crankshaft, aluminum connecting rods. Tapered roller bearings, 3-piece scraper-type oil rings. Low operating RPM for long life. Intercooler safety valve. Centrifugal unloader for simple and efficient loadless starts. Easy service air filter/silencer. Visual oil level gauge. Metallic green finish. All components built of finest materials and are precision machined.

TWO-STAGE, 2 & 4-CYL. PUMP PERFORMANCE

PSI	3 HP 2-Cyl. No. 3Z492				5 HP 2-Cyl. No. 3Z492				7½ HP 4-Cyl. No. 3Z493				10 HP 4-Cyl. No. 3Z493			
	Disp. CFM	Free† Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free† Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free† Air CFM	Pump RPM	1725* Motor Sheave	Disp. CFM	Free† Air CFM	Pump RPM	1725* Motor Sheave
100	15.70	11.90	510	4.95	24.88	18.50	808	7.75	41.89	32.60	696	7.75	47.80	37.80	802	8.95
125	14.94	11.20	485	4.75	23.40	18.20	795	7.75	39.67	30.80	663	7.35	44.48	35.30	750	8.35
150	14.32	10.40	457	4.45	22.18	15.90	700	6.75	38.50	29.40	642	7.15	44.48	34.80	747	8.35
175	12.94	9.90	433	4.25	21.56	15.80	700	6.75	31.72	24.40	536	5.95	43.12	34.30	745	8.35

(†) Flow rate data determined in accordance with ASME power test codes.

(*) Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP	Cylinder Bore & Stroke	No. Cyl.	Mount. Holes	H	Dimensions W D	Stock No.	Retail	Each	Shpg. Wt.
3 & 5	4¾ & 2½ x 3"	2	8¾ x 5¾"	25¾"	19¾" 20¾"	3Z492	\$524.00	\$367.26	150
7½ & 10	4¾ & 2½ x 3	4	9½ x 8½"	24	22¼" 24½"	3Z493	1140.00	797.62	236

ASME AIR SAFETY VALVES

Ring-Type Lifter for Manual Test



\$5.07 Valves are ASME Standard, National Board Certified. ¼" preset at 150 PSI; ¾" at 200 PSI, tested and sealed at the factory. For all compressed air and gas lines. Precision steel ball seat, bronze construction. Withstands up to 350°F. ¼" vents 90 CFM, ¾" vents 118 CFM. Ring-type lifter for manual test of valve. Male inlet, side outlet. 3¾" long. Kingston brand (112-C).

Male NPT Size	Stock No.	Retail	Each	Lots 5 Asst'd.	Shpg. Wt.
1/4"	4X826	\$7.80	\$5.46	\$5.07	6 oz.
3/8	4X827	7.80	5.46	5.07	6 oz.

VERTICAL CHECK VALVES

Spring-Guided Teflon Seats. Bronze Body



\$7.27 Specifically designed for use on vertical tank mtd. compressors. Withstands temperatures up to 500°F. Valve opens at 5 PSI, holds back pressure up to 450 PSI. Positive-seating Teflon disc, stainless steel spring, bronze body with provision for unloading device. For air compressors, water, gas, and oil lines. May also be used in horizontal position. Kingston Brand (226-A).

Fem. NPT Size	Stock No.	Retail	Each	Lots 5 Asst'd.	Shpg. Wt.
1/2"	4X828	\$10.20	\$7.65	\$7.27	12 oz.
3/4	4X829	13.95	10.46	9.94	12 oz.

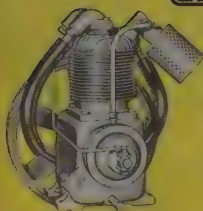
AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

Over 500 Most Widely-Used Fan and Blower Types are Stocked at Grainger's
Call Us For Regular and Emergency Needs — Rely on Immediate Delivery

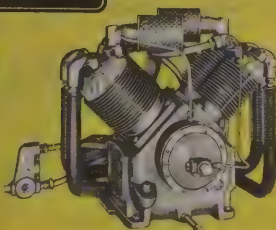
TWO-STAGE 2 & 4-CYLINDER COMPRESSOR PUMPS

3 to 25 HP, 2-Stage Pumps. 13.25 to 140 CFM Displacement. 100 to 175 PSI

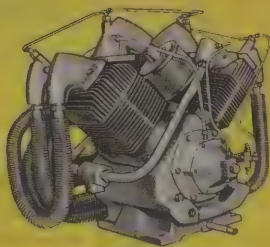
Speedaire



2-CYLINDER
3-5 HP, 15 HP



4-CYLINDER 7½-10 HP



4-CYLINDER 20-25 HP

Heavy duty industrial quality compressor pumps for new or replacement needs. Designed for 100 to 175 PSI applications. See performance table below. Precision built of finest materials. Centrifugal unloader for loadless starting. Counter-balanced, ductile iron crankshaft. Timken tapered roller bearings. Die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency, cooling and service life.

Swedish steel disc-type valves. Finned inter-cooler. Splash lubrication, visual oil-level gauge. Balanced fan-type flywheel rotates CCW facing flywheel. Drive belts not included, refer to note (*) below. Constant speed unloader control is standard on Nos. 3Z410 and 3Z411 pumps. If unloader is required on No. 3Z180 pump, use No. 5X709 Load Genie and for No. 3Z182 pump use No. 5X994 Load Genie.

TWO-STAGE, 2 & 4-CYLINDER PUMP PERFORMANCE

PSI	3 HP 2-Cyl. No. 3Z180					5 HP 2-Cyl. No. 3Z180					7½ HP 4-Cyl. No. 3Z182					10 HP 4-Cyl. No. 3Z182				
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	
100	16.12	13.94	553	5½"		26.05	22.60	894	8½"		43.08	36.00	738	8½"		50.30	41.85	853	9¼"	
125	14.98	12.68	514	4½"		24.09	20.50	826	7½"		39.66	33.32	692	7½"		47.95	39.45	823	9½"	
150	14.08	11.78	483	4¾"		22.75	19.34	781	7½"		38.03	31.75	652	7½"		44.95	36.45	772	8¾"	
175	13.25	11.01	454	4¾"		21.70	18.29	745	7"		33.40	27.75	573	6¾"		42.90	34.85	736	8¾"	

PSI	15 HP 2-Cyl. No. 3Z410					20 HP 4-Cyl. No. 3Z411					25 HP 4-Cyl. No. 3Z411					FLYWHEEL DATA		
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Pump† No.	OD	No. & Type Belt
100	79	62.5	990	12½"		116	98	820	10½"		140	112.0	990	12½"		3Z180	16½"	2-B
125	72	59	900	11½"		109.2	92.5	770	9¾"		127.5	105.7	900	11½"		3Z182	19½"	2-B
150	65.5	55.2	820	10¾"		102	82.0	720	9"		116	95.0	820	10¾"		3Z410	22"	3-B
175	61.5	53.7	770	9¾"		93	77.6	655	8¾"		109.2	91.0	770	9¾"		3Z411	22"	3-B

(*) Sheave sizes are OD to provide proper pump speed with 1725 RPM motor. (†) Flywheel on No. 3Z180 has two ⅝" grooves, 1½" OC for 4L or 5L belts. Flywheel on No. 3Z182 has two ⅝" grooves, ¾" OC for 5L belts.

AIR COMPRESSOR PUMP DIMENSIONS & PRICE DATA

Motor HP	Cylinder Bore & Stroke	No. Cyl.	Mounting Holes	H	Dimensions W	D	Stock No.	Retail	Each	Shpg. Wt.
3 & 5	4½" & 2½"x3"	2	8½"x5½"	19"	18"	20"	3Z180	\$536.00	\$401.25	123
½ & 10	4½" & 2½"x3	4	9½"x8½"	20½"	24"	21½"	3Z182	1127.00	841.59	213
15	6½" & 3½"x4½"	2	11½"x10"	28"	25½"	26"	3Z410	1924.00	1437.17	450
20 & 25	6½" & 3½"x4	4	11½"x11½"	26"	33"	27½"	3Z411	2348.00	1751.80	567

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

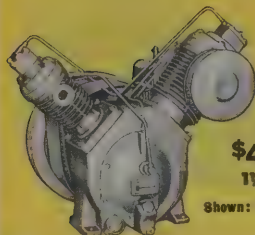
Quantity Prices on Motors for OEM Production Use — Fast Delivery

Quantity motor prices are available on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs

can be shipped from local Grainger stocks as required. Carloads kept in Chicago Distribution Center. Ask your Grainger salesman.

TWO-STAGE, 2 & 3-CYLINDER COMPRESSOR PUMPS

1½ to 25 HP, 6.1 to 109 CFM Displacement
100 to 200 PSI. Ingersoll-Rand Brand.
Built for Long Life on Demanding, Continuous
Duty Industrial Applications.



\$429.08

1½ to 2 HP

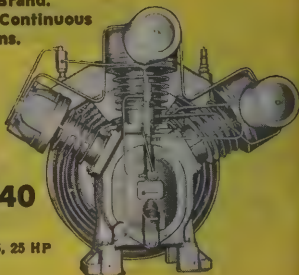
Shown: No. 32542, 10 HP



\$1601.40

15 HP

Shown: No. 32545, 25 HP



Built for continuous duty, long service life. Separately cast cylinders with inlet and discharge connections—no need to disturb piping when servicing valves. One-piece connecting rods, equalized-mass pistons, balanced, overhung crankshaft for smooth operation. Full time low oil protection; switch stops unit if oil gets low, won't restart unless oil is added.

Centrifugal unloader on all units. Head unloaders on 7½ to 25 HP units. Valve systems designed for cool operation; stainless steel on all models. Finger type valves on 1½ to 5 HP, concentric ring type on 7½ to 20 HP, air cushioned channel type on 25 HP. Finned copper intercoolers. Metallic blue finish. Ingersoll-Rand brand.

TWO-STAGE, 2 & 3-CYLINDER PUMP PERFORMANCE

PSI	1½ HP No. 32539					2 HP No. 32539					3 HP No. 32540					5 HP No. 32540				
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	
100	8.1	6.43	716	5.551		10.6	8.1	978	7.583		17.6	13.8	880	7.588		21.8	16.6	1087	9.373	
125	7.4	5.85	656	5.086		10.1	7.7	933	7.234		16.3	12.8	819	7.062		21.4	16.2	1065	9.183	
150	6.9	5.40	613	4.752		9.8	7.3	904	7.009		15.3	11.8	766	6.605		20.5	15.4	1023	8.821	
175	6.5	5.04	575	4.458		9.65	7.1	885	6.861		14.4	11.0	720	6.208		19.8	14.8	985	8.493	
200	6.1	4.70	541	4.194		9.2	6.7	848	6.575		13.7	10.4	688	5.932		18.4	13.6	915	7.890	

PSI	7½ HP No. 32541					10 HP No. 32542					15 HP No. 32543					20 HP No. 32544				
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave	
100	44.7	31.8	984	9.982		53.5	42.5	975	9.891		76.4	55.6	1118	12.638		109	81.4	1200	14.782	
125	41.5	29.4	914	9.272		50.2	39.7	915	9.282		74.5	53.7	1158	13.090		106	78.6	1162	14.314	
150	38.5	27.2	847	8.592		47.5	37.2	867	8.795		72.7	51.9	1130	12.773		102	75.1	1119	13.784	
175	36.4	25.6	800	8.115		45.0	35.0	820	8.318		71.4	50.5	1110	12.547		98.5	72.0	1080	13.304	
200	34.4	24.1	757	7.679		43.0	33.2	784	7.953		69.3	48.5	1077	12.174		95.5	69.5	1047	12.897	

PSI	25 HP No. 32545					FLYWHEEL SPECIFICATIONS							
	Disp. CFM	Free Air CFM	Pump RPM	1725* Motor Sheave		Stock No.	Mfr's Model	OD	Flywheel Pitch Dia.	Belt Grooves Number	Belt Section		
100	109	81.2	1200	10.608		32539	234	13¾"	13¾"	Two	A		
125	109	80.6	1200	10.608		32540	242	15¼"	14¾"	Two	A		
150	109	80.0	1200	10.608		32541	7T	18	17½"	Three	B		
175	109	79.5	1200	10.608		32542	7T2	18	17½"	Three	B		
200	109	79.0	1200	10.608		32543	10T	20	19½"	Four	C		
						32544	15T	22	21¼"	Three	C		
						32545	20T2	16	15¼"	Three	C		

(*) Sheave sizes are OD to provide proper pump speed with 1725 RPM motor.

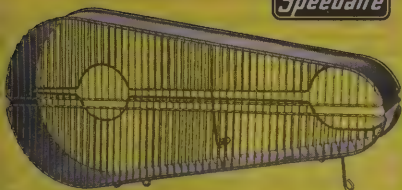
AIR COMPRESSOR PUMP DIMENSIONAL AND PRICE DATA

Motor HP	No. Cyl.	Cylinder Bores & Stroke	Pump Dimensions H W D	Mounting Holes, OC	Mfr's Model	Stock No.	Retail	Each	Shpg. Wt.
1½-2	2	3 & 1¼x2¾"	13¾" 17½" 17½"	5½x9½"	234	32539	\$631.00	\$429.08	127
3-5	2	4 & 2½x2¾"	16½" 20" 20¾"	6¼x10¾"	242	32540	775.00	527.00	202
7½	2	5 & 2½x4"	26½" 30¾" 23"	6x12	7T	32541	1768.00	1202.24	424
10	2	5½ & 3x4"	26½" 31½" 24½"	6x12	7T2	32542	1936.00	1316.48	448
15	3	4½, 4½ & 3¼x3½"	28½" 34½" 25½"	6½x11	10T	32543	2355.00	1601.40	888
20	3	5 & 3½x4"	30¾" 37½" 31"	7x12	15T	32544	2996.00	2037.28	644
25	3	5, 5 & 3½x4"	33½" 36½" 34"	7x16	20T2	32545	3411.00	2319.48	850

PREPAID FREIGHT on all shipments of 300 lbs and over. See Sales Policy in Index for full details

BELT SAFETY GUARDS FOR COMPRESSORS

Speedaire



For use with Speedaire compressors listed below. Provides operator safety and prevents objects from fouling flywheel or belt. Heavy vertical ribbed wire construction. Easily installed.

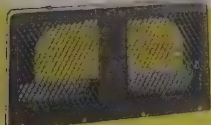
See Listing Below For Proper Guard

Stock No.	Dimensions			Retail	Each	Shpg. Wt.
	L	H	D			
2Z501	27"	11 1/4"	3 1/4"	\$34.60	\$22.50	8
2Z502	30	11 1/2	3 1/4	31.85	20.71	9
2Z506	32 1/2	18	3 1/4	42.95	27.91	13
2Z508	37 1/2	18	3 1/4	57.50	37.36	15
2Z509	37 1/4	20 1/4	4 1/4	64.95	42.22	17
2Z510	17	11	3 1/4	27.50	17.88	4 1/2
2Z852	31 1/2	14 1/2	4	49.45	32.14	9

BELT GUARDS FIT SPEEDAIRE COMPRESSOR UNITS LISTED BELOW

No. 2Z501	No. 2Z502	No. 2Z506	No. 2Z508	No. 2Z509	No. 2Z510	No. 2Z852
Fits Compressor No.	Fits Compressor No.	Fits Compressor No.	Fits Compressor No.	Fits Compressor No.	Fits Compressor No.	Fits Compressor No.
1Z941	1Z982	1Z762	3Z197	1Z784	1Z286	3Z097
1Z980	1Z991	1Z763	3Z198	1Z806	1Z910	3Z205
3Z031	1Z992	3Z040	3Z199	1Z935	3Z124	3Z206
3Z032	3Z166	3Z047	3Z200	1Z937	3Z123	3Z211
3Z160	3Z188	3Z048	3Z201	3Z050	3Z243	3Z212
3Z165	3Z189	3Z096	3Z202	3Z051	3Z363	
3Z225	3Z190	3Z196	3Z203		7Z001	

REPLACEMENT COMPRESSOR BELT SAFETY GUARDS



No. 2Z512 \$11.52

SAFETY GUARD SELECTION CHART

2Z512		2Z513	
Fits Compressor No.	Fits Compressor No.	Fits Compressor No.	Fits Compressor No.
2Z653	3Z323	3Z408	3Z424
3Z322	3Z355	3Z419	3Z425
3Z304	3Z395	3Z420	3Z428
3Z405	3Z396	3Z421	3Z430
3Z427	3Z406	3Z422	3Z432
3Z429	3Z407	3Z423	

For use with all compressors listed. Provides operator safety, prevents objects, air lines, etc. from fouling flywheel or belt.

No. 2Z512. Wt. 3 3/4 lbs. Retail \$20.00\$11.52
No. 2Z513. Wt. 5 lbs. Retail \$26.50\$14.97

REPLACEMENT POLY V-BELTS FOR COMPRESSORS

Six-rib belt for Speedaire compressors listed and many other popular brand air compressors. Static conducting, high tensile strength, oil and heat resistant. Demco brand.

SIZE Long Wide	FITS SPEEDAIRE COMPRESSORS				RMA Belt No.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
49x5/8"	3Z323	3Z395	3Z406	3Z419	49QJ6	3X542	\$5.04	\$3.36	\$2.80	1 oz.
	3Z355	3Z396	3Z407	3Z432						
46x5/8	3Z420	3Z422	3Z424	3Z428	46QJ6	3X655	4.95	3.30	2.75	1 oz.
	3Z421	3Z423	3Z425							

STATIONARY TANK CONVERSION KIT

Converts many Speedaire 12 & 20 gal. portable compressors to stationary units. Kits consists of mounting bracket, hardware, and assembly instructions. Shpg. wt. 3 1/4 lbs.

No. 2Z561. Retail. \$16.50. Each.....\$8.97

Converts 12 Gal. Models			Converts 20 Gal. Models		
3Z394	3Z408	3Z430	3Z323	3Z395	3Z407
3Z405	3Z427	3Z432	3Z355	3Z396	3Z419
	3Z429			3Z406	

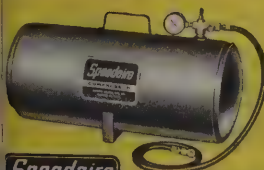
7 & 9 GAL. PORTABLE AIR TANKS

Compact & Economical. Both With 6 Ft. Air Hose, Tire Chuck

\$25.35

7 Gal.

Portable air supply away from compressor—for tire inflation, drying, etc. Compact, lightweight, economical. Equipped with 6 ft. air hose, tire chuck, 200 PSI pressure gauge, push-button shut-off valve and safety relief valve. Maximum working pressure 150 PSI. Gray enamel finish. Speedaire brand.



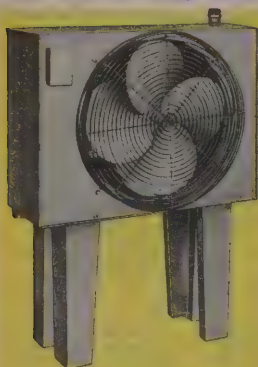
No. 2Z761

Size	Dimensions			Stock No.	Retail	Each	Shpg. Wt.
	L	H	D				
7 gal.	24"	13"	10 1/4"	2Z241	\$39.00	\$25.35	20
9 gal.	26 1/4	11 1/4	11 1/4	2Z761	40.00	29.35	25

SEE WARRANTY INFORMATION ON PAGE 684

SPEEDAIRE AIR-COOLED AFTERCOOLERS

Use Fan-Forced Room Air To Cool Air After Compressing. 1/6 HP, 115V, 60 Hz Fan.
Reduce Compressed Air Pollutants Such As Water, Vaporized Oil, Dust and Dirt



Speedaire

\$180.20

No. 3Z535

Speedaire air-cooled aftercoolers reduce temperature of compressed air, help in removing water and oil vapor, dust and dirt from compressed air. More economical than water-cooled types. Heavy gauge, galvanized steel construction for indoor or outdoor installation. Maximum working pressure, 175 PSI. Open drip-proof fan motor. Fan guard meets OSHA requirements. Legs shipped disassembled.

HOW TO SELECT:

- 1) Determine maximum summer time temperature of compressed air (inlet air temperature) at the point at which aftercooler will be installed (unit should be as close to compressor discharge connection as practical). Piston type compressors require more cooling capacity than rotary screw or rotary vane types. A two-stage piston type compressor will have a discharge temperature of about 350°F; screw and vane types, 250°F. Unit can be mounted after air receiver, where incoming air temperature will be approx. 200°F.
- 2) Determine how close to the temperature of the air surrounding the aftercooler, the compressed air is to be cooled. This is the "approach" temperature.
- 3) Find actual CFM rated output of compressor (not displacement CFM) at full load, at the operating pressure of the system.
- 4) In table below, find section for incoming air temperature determined in Step 1. In column for approach temperature selected in Step 2, find maximum output CFM figure determined in Step 3. If exact number is not shown in table, use the next larger number in that column. Stock number of proper aftercooler for specified conditions is at far left of this number.

PERFORMANCE DATA—SPEEDAIRE AIR-COOLED AFTERCOOLERS

Maximum capacities in CFM for 5°, 10°, 15° or 20° approach to ambient air temperature at 80 to 125 PSI.

Incoming Air "Approach" Temp.	350°F Inlet Air Temperature				250°F Inlet Air Temperature				200°F Inlet Air Temperature				150°F Inlet Air Temperature			
	5°F	10°F	15°F	20°F	5°F	10°F	15°F	20°F	5°F	10°F	15°F	20°F	5°F	10°F	15°F	20°F
3Z535	14	18	22	25	19	24	30	34	21	26	32	36	21	27	33	38
3Z536	22	28	33	38	30	38	45	51	32	41	48	55	33	42	50	57
3Z537	32	42	48	55	43	57	65	72	46	61	70	80	48	63	72	83
3Z538	54	69	80	93	73	93	108	126	79	100	116	135	81	104	120	140

AIR-COOLED AFTERCOOLER DIMENSIONS AND PRICES

Stock No.	Fan Motor		Inlet & Outlet	Dimensions			Retail	Each	Shpg. Wt.
	HP	Volts, 60 Hz		H	W	D			
3Z535	1/6	115	1" MPT	35 1/2"	25"	14 1/2"	\$212.00	\$180.20	125
3Z536	1/6	115	1 1/4"	37 1/2"	29"	14 1/2"	230.00	195.50	140
3Z537	1/6	115	1 1/2"	41 1/2"	31"	15 1/2"	278.00	234.60	153
3Z538	1/6	115	2"	43 1/2"	33"	15 1/2"	372.00	316.20	155

SPEEDAIRE WATER-COOLED AFTERCOOLERS

Reduce Temperature and Water Vapor Content of Compressed Air Leaving Compressor Pump.
Copper Alloy Tubes and Shell For High Efficiency. Bronze Castings on Ends



\$62.27

No. 2Z926

Designed for high-efficiency cooling of compressed air discharge from 1 to 25 HP compressors. Water flows in opposite direction to air to conserve on water usage. Copper alloy tubes, shells and baffles for rapid heat transfer, bronze end castings for corrosion resistance, long service life. Maximum working pressure: air, 250 PSI; water, 125 PSI. Mounting feet at both ends. 1/2" IPT water inlet and outlets. 3/4" IPT air inlet and outlet on No. 2Z926, 1 1/4" on No. 2Z927. Green enamel finish.

Capacity, Cooling Air to 15°F Above Water Temp.	Max. Comp. HP	Inlet & Outlet		Dimensions			Stock No.	Retail	Each	Shpg. Wt.
		Water	Air	H	W	L				
Up to 40 CFM	10	1 1/2"	3/4"	3 1/4"	3"	25"	2Z926	\$83.00	\$62.27	6
Up to 110 CFM	25	1 1/2"	1 1/4"	3 1/4"	3"	36"	2Z927	109.00	82.09	11

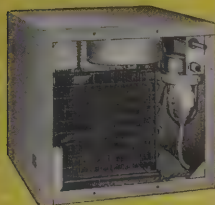
SOLENOID VALVES for Controlling Water Flow to Aftercooler—See Index Under Valves, Solenoid

Grainger's In-Stock Supply Service Helps You Sell More and Net Larger Profits

REFRIGERATED TYPE COMPRESSED AIR DRYERS

Chill Compressed Air to Condense Water Vapor. Purge Condensate Automatically
10 to 100 CFM Capacity Models. 1/6 to 3/4 HP Refrigerant Compressors. 115V, 60 Hz

Speedaire



• CSA Approved

\$269.10 10 CFM Model

Speedaire refrigerated type compressed air dryers remove water vapor from air by chilling it; require no expensive chemicals, need less maintenance than units using other dehydrating methods.

Install in air system at any point where incoming air is at 175 PSI or less, and at 100°F or less. An air-cooled or water-cooled aftercooler can be used to pre-cool incoming air to refrigerated drier.

Tube-in-tube construction of refrigeration section for highly efficient transfer of heat from air to refrigerant. 35 to 100 CFM models utilize an additional air-to-air heat exchanger to pre-cool incoming air with outgoing cool air.

Non-cycling operation for longer life; unit runs continuously, refrigerant by-pass system matches amount of refrigerant in evaporator to flow of compressed air, to maintain constant output temperature and prevent freeze-up.

1/6 to 3/4 HP, 115V, 60 Hz refrigerant compressors with built-in automatic reset thermal protection.

All units have automatic condensate drain, 40 micron porous bronze after-filter, power-on indicator and air high-temperature indicator. Cabinets have keyhole slots for wall mounting. Metallic green enamel finish. 6 ft. grounded cord set. CSA approved. Speedaire brand.

SPEEDAIRE AIR DRYER PERFORMANCE, DIMENSIONS AND PRICES

Flow capacities are based on incoming air at 100°F, and 100 PSI. 39°F column is capacity when ambient air at both dryer and air tool locations between 35 and 100°F. If temperature at tool locations is always between 70 and 100°F, units

may be used at ratings in 50°F column. Use of refrigerated air dryers not recommended where temperature is below 35°F. Maximum working pressure and temperature for incoming air on all units, 175 PSI @ 120°F.

Flow Capacity @ Pressure Dew Point CFM @		Refrig. Compressor			Air Connections			Overall Dimensions			Stock No.	Retail	Each	Shpg. Wt.
39°F	50°F	HP	Volts 60 Hz	Full- Load Amps	Inlet Tube	Outlet OD	MPT or OD	H	W	D				
10	13	1/6	115	3.3	3/8"	3/8"	MPT	14"	16 1/8"	15"	3Z528	\$299.00	\$269.10	61
15	17	1/5	115	4.7	3/8"	3/8"	MPT	14	17 1/4"	15	3Z529	365.00	328.50	70
25	32.5	1/3	115	7.4	5/8"	1/2"	MPT	16	22 1/4"	16	3Z530	540.00	486.00	99
35	45.5	1/3	115	7.4	5/8"	5/8"	OD	16	22 1/4"	16	3Z531	710.00	639.00	103
55	71.5	1/2	115	9.8	1 1/8"	1 1/8"	OD	22 1/4"	32 1/4"	19 1/2"	3Z532	990.00	891.00	218
70	91	3/4	115	18.5	1 1/8"	1"	MPT	22 1/4"	32 1/4"	19 1/2"	3Z533	1100.00	989.00	219
100	130	3/4	115	18.5	1 1/8"	1 1/8"	OD	22 1/4"	32 1/4"	19 1/2"	3Z534	1250.00	1125.00	239

CONDENSATE SEPARATOR/DRAIN TRAPS

75 to 770 CFM Capacities. Cast Iron Construction. Wright-Austin Brand



\$83.60
No. Z2921

Whirls air inside, throwing entrained moisture and dirt to the walls. Entrainment gathers at bottom where it is ejected automatically through float controlled stainless steel valve. Cast iron body; design pressure 160 PSI @ 450°F. Vessel design and construction in accordance with ASME code. Also usable for steam, gas. Liquid discharge capacity of all models 780 lbs./hour @ 100 PSI. Gray primer finish. Wright-Austin brand.

Max. CFM @			Inlet Outlet	Overall	Mfr's	Stock	Retail	Each	Shpg. Wt.
50 PSI	100 PSI	150 PSI	IPT	H* Dia.	Model	No.			
75	110	125	3/4"	10 1/2" 5 1/2"	ST 3/4"	22921	\$88.00	\$83.60	20
175	245	300	1 1/4"	10 1/2" 6"	ST 1 1/4"	22922	106.00	100.70	26
245	345	425	1 1/2"	12 1/4" 7 1/2"	ST 1 1/2"	22923	122.00	115.90	31
445	620	770	2"	14" 8 3/8"	ST 2"	22924	148.00	140.60	42

(*) From center of air inlet to bottom of unit.

AUTOMATIC-DRAINING CONDENSATE TRAP

Ejects Condensate Without Loss of Line Pressure. 0 to 150 PSI



\$36.10

Float-operated trap ejects condensate without loss of line pressure because of positive water seal. Stainless steel valve components, cast iron body and cover. Built in accordance with ASME code. 3/4" IPT inlet and blowdown connections. Gray primer finish. Wright-Austin brand (90-AC). Shpg. wt. 8 lbs.

No. Z2925. Condensate Trap. Retail \$38.00. Each.....\$36.10

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

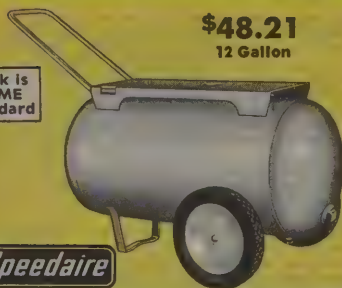
On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

ASME CODE PORTABLE AIR COMPRESSOR TANKS

12 & 20 Gal. 163 PSI Meet City and State Tank Requirements. Certificate of Compliance Furnished

Tank is
ASME
Standard

\$48.21
12 Gallon



Speedaire

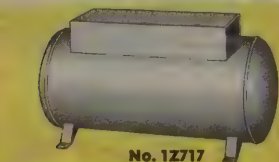
Portable Speedaire ASME Standard code air tanks are designed to accept new or replacement compressor/motor assemblies. Will meet city and state requirements for all commercial and industrial installations. Each is manufactured to meet rigid standards. Certificate of Compliance is included with each tank. 10 x 1.75" semi-pneumatic tires, axle assembly and pull-type handle. Tanks available in 12 or 20 gallon capacity with 163 PSI working pressure.

Stock No.	Dia.	—Length—		Shell	—Platform—		
		Overall			L	W	Gauge
2Z635	12"	27 $\frac{1}{2}$ "		22"	23 $\frac{1}{2}$ "	9"	11
3Z409	14"	32 $\frac{1}{2}$ "		24 $\frac{1}{2}$ "	23 $\frac{1}{2}$ "	9"	11

Gal. Cap.	Working Pressure	Stock No.	Retail	Each	Shpg. Wt.
12	163 PSI	2Z635	\$74.00	\$48.21	61
20	163 PSI	3Z409	98.00	83.85	78

3 TO 30 GALLON AIR COMPRESSOR TANKS

For Stationary & Portable Use in New & Replacement Installations. Heavy Gauge Steel

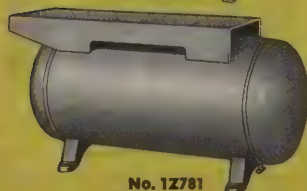


No. 1Z717



No. 1Z781

\$27.55
3-Gallon



No. 1Z781

Speedaire



No. 2Z623

No. 2Z559 No. 2Z624

No. 2Z560 No. 3Z404

Heavy duty steel tanks built for air compressor service in new or replacement installations. Stationary models have drilled floor footings. Portable units include semi-pneumatic tires, axle assembly and pull-type handle. Tires on 7 $\frac{1}{2}$ and 12 gallon tanks are 7 x 1.75"; on 20 gallon model, 10 x 1.75". All units have steel platform for mounting compressor and motor—plus adequate 1/4, 3/8 and 1/2" NPT openings. Portable tanks can be assembled in minutes. Blue-gray finish. Individually cartoned.

NOTE: These tanks do not have ASME certification. Before ordering, check local and state code requirements. ASME code standard inspected tanks are also available. See Index under Tanks, ASME Air.

No. 2Z624 and 3Z404 are equipped with sturdy, over-size platforms to accommodate numerous pump, power combinations. Nos. 2Z624 and 3Z404 have added feature of being convertible to stationary type when used with No. 2Z561 Tank Conversion Kit listed on nearby page.

165 PSI STATIONARY AIR COMPRESSOR TANKS

Gal. Cap.	Working Pressure	Dia.	—Length—		Shell	—Platform—			Stock No.	Retail	Each	Shpg. Wt.
			Overall			L	W	Ga.				
3	165 PSI	6 $\frac{1}{2}$ "	24 $\frac{1}{2}$ "		22 $\frac{1}{2}$ "	18"	5 $\frac{1}{8}$ "	14	1Z782	\$42.50	\$27.55	17
12	165 PSI	12	27"		24"	16"	7"	12	1Z717	52.95	34.43	36
30	165 PSI	16	39 $\frac{1}{2}$ "		30"	33 $\frac{1}{4}$ "	12"	10	1Z781	153.95	99.87	118

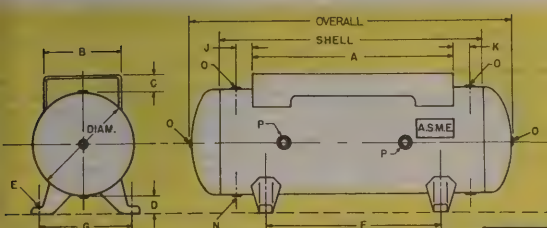
165 PSI PORTABLE AIR COMPRESSOR TANKS

7 $\frac{1}{2}$	165 PSI	10	23 $\frac{1}{2}$ "		19 $\frac{1}{2}$ "	16"	7"	14	2Z623	\$49.00	\$31.86	34
12	165 PSI	12	27"		24"	16"	7"	12	2Z559	66.00	42.88	44
12	165 PSI	12	26 $\frac{1}{4}$ "		22 $\frac{1}{2}$ "	23 $\frac{1}{2}$ "	9"	11	2Z624	65.00	42.23	53
20	165 PSI	14	30"		24"	16"	7"	12	2Z560	85.50	55.49	63
20	165 PSI	14	32 $\frac{1}{2}$ "		28 $\frac{1}{4}$ "	23 $\frac{1}{2}$ "	9"	11	3Z404	85.00	55.37	75

AIR COMPRESSOR TERMINOLOGY AND SELECTION GUIDE—Pages 430-432

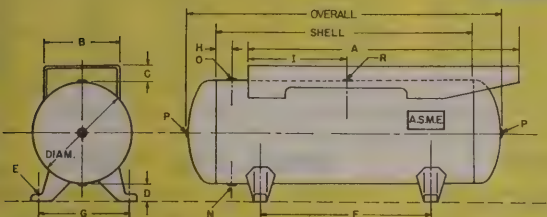
ASME CODE AIR TANKS—15 to 120 GAL.

Meets City and State Tank Requirements. Certification of Inspection Furnished

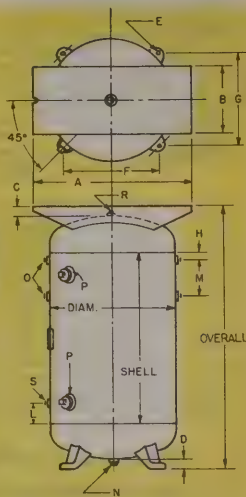


A HORIZONTAL MOUNT—Nos. 1Z989, 1Z990

**Tank is
ASME
National
Board**



B HORIZONTAL EXTENDED MOUNT—Nos. 1Z984, 1Z985, 1Z986



**C VERTICAL MOUNT
Nos. 3Z088, 1Z987, 1Z988**

designed to accept new or replacement compressor/motor assemblies, these ASME U code Speedaire air tanks meet city and state requirements for all commercial and industrial installations. Each unit is manufactured, inspected and tested to meet rigid standards adopted by the American Society of Mechanical Engineers. An ASME Certificate of Inspection is included with each tank listing registered serial number and verifying that tank has been inspected by an independent agency in accordance with ASME standards.

Speedaire

\$72.56

No. 1Z984

The ASME Certificate is required by law in many cities and states to pass safety codes—and is your assurance that: (1) Code approved materials are used, (2) Steel plate is without defects and is the specified thickness, (3) Proper welding techniques are employed by experienced operators, (4) Openings and supports are the correct size, and (5) Tank has passed rigid tests. To select size tank required, refer to the above dimension prints and then corresponding table shown below. No. 1Z984, 1Z985 individually cartoned. Speedaire brand.

200 PSI ASME TANK SPECIFICATIONS and DIMENSIONS

DIMENSIONS IN INCHES— $\pm \frac{1}{16}$ " OVER 1"

Stock No.	Gal. Cap.	Length			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S
		Dia.	Overall	*Shell																		
Z984	15	12"	33"	25 $\frac{1}{4}$ "	26 $\frac{1}{2}$ "	8 $\frac{3}{8}$ "	2"	1 $\frac{1}{16}$ "	7 $\frac{1}{8}$ "	20"	11"	1 $\frac{1}{4}$ "	10 $\frac{7}{8}$ "	—	—	—	—	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	3 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	—
Z985	30	16	40	25 $\frac{3}{4}$ "	33 $\frac{1}{4}$ "	12	2	2 $\frac{3}{8}$ "	9 $\frac{1}{8}$ "	24	13 $\frac{1}{16}$ "	1 $\frac{7}{8}$ "	12 $\frac{1}{2}$ "	—	—	—	—	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	—
Z986	60	20	51	36 $\frac{1}{4}$ "	33 $\frac{1}{4}$ "	12	2 $\frac{3}{8}$ "	2 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "	28	17 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	14 $\frac{1}{2}$ "	—	—	—	—	1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2	1 $\frac{1}{2}$ "	—
Z989	80	20	63	51	42 $\frac{1}{2}$ "	15	1 $\frac{7}{8}$ "	2 $\frac{3}{8}$ "	9 $\frac{1}{8}$ "	44	18	2 $\frac{3}{8}$ "	—	2 $\frac{3}{8}$ "	2"	—	—	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2	—	—
Z990	120	24	69	54	44	16	2 $\frac{3}{8}$ "	3 $\frac{1}{4}$ "	9 $\frac{1}{8}$ "	42	18 $\frac{1}{4}$ "	3	—	3	2 $\frac{3}{4}$ "	—	—	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2	—	—
Z088	30	20	30 $\frac{1}{4}$ "	14 $\frac{1}{2}$ "	30	12	2	2	9 $\frac{1}{8}$ "	16 $\frac{1}{4}$ "	16 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	—	—	—	3 $\frac{5}{8}$ "	4"	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2	1 $\frac{1}{2}$ "	3 $\frac{1}{8}$ "
Z987	60	24	39	21	30	12	2 $\frac{3}{8}$ "	2	9 $\frac{1}{8}$ "	18	18	1 $\frac{1}{2}$ "	—	—	—	4 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2	1 $\frac{1}{2}$ "	3 $\frac{1}{8}$ "
Z988	80	24	53 $\frac{1}{2}$ "	35 $\frac{1}{2}$ "	30	12	2 $\frac{3}{8}$ "	2	9 $\frac{1}{8}$ "	18	18	1 $\frac{1}{2}$ "	—	—	—	4 $\frac{1}{4}$ "	7 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	3 $\frac{1}{4}$ "	2	1 $\frac{1}{2}$ "	3 $\frac{1}{8}$ "

* Horizontal length or vertical height.

ASME TANK PRICES (Freight Prepaid on Shipments of 300 Lbs. & Over)

Gallon Capacity	Type	Fig.	PSI Working Pressure	Finish	Motor Mounting Rails Incl.	Stock No.	Retail	Each	Shpg. Wt.
15	Horizontal	B	200	Green	No	1Z984	\$112.00	\$72.56	66
30	Horizontal	B	200	Green	No	1Z985	168.00	109.32	130
60	Horizontal	B	200	Green	Yes	1Z986	258.00	167.84	207
80	Horizontal	A	200	Green	No	1Z989	315.00	204.60	262
120	Horizontal	A	200	Green	No	1Z990	458.00	297.63	367
30	Vertical	C	200	Green	Yes	3Z088	234.00	152.32	128
60	Vertical	C	200	Green	Yes	1Z987	352.00	229.26	203
80	Vertical	C	200	Green	Yes	1Z988	380.00	247.42	249

SEE WARRANTY INFORMATION ON PAGE 684

COMBINATION VALVE FOR AIR & LIQUID PIPING SYSTEMS

All Bronze Construction. For Maintenance, OEM and Construction



- All bronze construction; for use with air or liquid
- Throttles like a globe valve, gives full flow like a gate valve

\$3.87

Each, Lots 10
1/4, 3/8 or 1/2" IPT

Bronze combination valve features the advantages of both a globe valve and gate valve. Throttles like a globe valve while providing the full flow of a gate valve. May be used with air or liquid. Positive shut-off every time with normal hand pressure; non-rising stem. Wray around relieved seat for easier shut-off action. All bronze construction; Buna N plunger an O-ring temperature range in continuous operation is from -40° F to 180° F in water and most oil applications. Both ends tapped same size IPT. See table below for performance data, dimensions and pricing. Speedaire brand.

IPT Size	Max. Recommended —Operating Pressures— Liquid*	Gas**	Dimensions Height	Width	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
1/4"	125 PSI	250 PSI	2 1/8"	1 3/4"	6X402	\$5.10	\$4.08	\$3.87	6 oz.
3/8"	125 PSI	250 PSI	2 3/8"	1 3/4"	6X403	5.10	4.08	3.87	6 oz.
1/2"	125 PSI	250 PSI	2 3/4"	2"	6X404	5.10	4.08	3.87	9 oz.
3/4"	125 PSI	250 PSI	3 1/8"	2 3/8"	6X405	6.30	5.04	4.78	11 oz.
1"	100 PSI	250 PSI	3 1/2"	2 7/8"	6X406	11.05	8.84	8.39	2"
1 1/2"	80 PSI	250 PSI	5 1/8"	3 3/4"	6X407	22.10	17.68	16.80	4"
2"	80 PSI	250 PSI	6 1/8"	4 3/8"	6X408	31.60	25.28	24.02	7"

(*) Based on the expectation that complete pressure drop will occur across the valve. Such pressure drop requires extreme torque to open or close the valve.

(**) This table can be used for liquids if maximum pressure drop across the valve does not exceed 80 PSI.

TANK MANIFOLDS

For Portable or Stationary Compressors up to 2 HP and Air Carrying Tanks. With Built-in Adjustable Safety Valve



Compressor Type

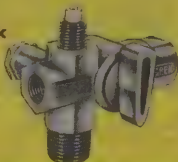
\$1.86

Lots 10

Carry Tank Type

\$2.05

Lots 10



All-in-one outlet fitting for air compressor tanks combines safety valve, ball-type full flow valve, tank mount fitting and fittings for mounting user's air gauge and pressure switch. Model for air carrying tanks is similar but has tire-type filler valve in place of pressure switch fitting. Body of shock-impact resistant resin can be hand-tightened to seal; no sealant needed. Steel support sleeves in male outlet fittings.

Smooth turning ball valve for air flow adjustment. Built in, adjustable safety valve with stainless steel spring, factory set for 120 PSI. 200 PSI maximum working pressure, -40° F to 180° F temperature range. Not suitable for discharge direct from compressor pump-air must be piped to inlet. Fitting sizes: Tank mount, 1/2" MPT; switch mount (not on No. 6X272) 1/4" MPT; gauge mount and outlet, 1/4" FPT. 4 H, 3 1/2" W, 3 1/2" D, black finish. Made by Control Devices, Inc.

Type	Mfr's Model	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
Compressor	AM1	6X271	\$2.79	\$2.07	\$1.86	4 oz.
Carry Tank	AM2	6X272	3.11	2.28	2.05	4 oz.

BRASS BALL VALVES

Heavy Duty, 2-Piece Construction. Teflon Seats For Use With Air, Water, Oil, Steam, Etc.

\$4.94

1/2" FPT. Lots 10



Heavy duty cast bronze ball valves are precision machined for maximum strength, durability and maintenance-free operation.

Two-piece construction; cast bronze body, end cap and ball, Teflon seats and seals, corrosion resistant steel handle with 1/4" twin stop for positive control. Operates in either direction. Valves rated at 400 PSI for air, water, oil and other liquids, and 125 PSI for steam; -65° F to +400° F temperature range. Vacuum rating 2 in. mercury (Hg.) FPT both ends. Individ. boxed Speedaire brand.

Inlet & Outlet	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
1/4"	5X713	\$6.65	\$5.32	\$5.04	10 oz.
3/8"	5X714	6.65	5.32	5.04	12 oz.
1/2"	5X715	6.50	5.20	4.94	14 oz.
3/4"	5X716	8.65	6.92	6.57	1"
1"	5X717	13.05	10.44	9.92	1"
1 1/4"	6X217	21.30	17.04	16.19	2"
1 1/2"	6X218	27.50	22.08	20.90	3"
2"	6X219	36.70	29.36	27.89	5"

ADJUSTABLE RELIEF VALVE



Brass relief valve set at 55 PSI adj. to 125 PSI. For air, water and fluids not affecting neoprene seat. Inlet and outlet IPT are same.

NPT	Stock No.	Retail	Each	Lots 10	Wt.
1/2"	1X624	\$4.60	\$3.48	\$3.23	8 oz.
3/4"	2X318	6.35	4.72	4.38	12 oz.

Phone Your Pick-Up Orders

Grainger's assures you same-day will-call service, ample off-the-street parking.

1/4 TO 3/4" ID AIR, LIQUID & MATERIAL HOSE



1 COUPLED & BULK INDUSTRIAL HOSE



2 HEAVY DUTY INDUSTRIAL HOSE



3 PAINT & SOLVENT MATERIAL HOSE



All types available in coupled lengths; Industrial type (Fig. 1) also sold in bulk

COUPLED & BULK INDUSTRIAL HOSE. (Fig. 1) 175 & 200 PSI, high tensile textile, 1 and 2-braid hose for carrying compressed air, liquids. Coupled hose comes in 25 and 50' lengths, bulk hose in 250' coils. Black SBR covers for good abrasion, weather resistance. Normal burst pressure equal to 3½ times working pressure.

HEAVY DUTY INDUSTRIAL HOSE. (Fig. 2). 300 PSI, 2-braid hose for handling oil-saturated air, water, lubricating oil, other petroleum products. Oil-resistant tube; tough reinforcing plies. Rayon braid; smooth, black Neoprene cover. Handles up to 140° F hot water and heated air.

Excellent weather, abrasion characteristics.

MATERIAL HOSE. (Fig. 3). 200 PSI, 2-braid all-purpose hose for paints, solvents, gasoline, insecticides, etc. Rugged nitrile tube and reinforced black neoprene cover for pressures up to 200 PSI. ¾" female fittings on both ends.

UTILITY HOSE. (Not shown). High tensile strength hose in 15, 25 or 50 ft. lengths, pressures up to 75 PSI. Black SBR cover.

GARAGE HOSE. (Not shown). Rated up to 200 PSI maximum pressure. Has ¼" air chuck at one end for tire inflation; ¼" MPT fitting at other end. Black SBR cover; 25' length only.

15, 25 & 50 FT. LENGTH HOSES COMPLETE WITH COUPLINGS

Figure	Type	Length	ID	OD	Max. PSI	Braid	Fittings	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
1	Industrial	25'	¼"	½"	200	1	¼" MPT	22608	\$14.90	\$10.44	\$9.41	3
1	Industrial	50	¼"	½"	200	1	¼" MPT	22609	24.40	17.11	15.41	5½
1	Industrial	25	⅜"	11/16"	200	1	⅜" MPT	22610	17.30	12.14	10.93	5
1	Industrial	50	⅜"	11/16"	200	1	⅜" MPT	22611	27.80	19.49	17.54	7½
1	Industrial	25	½"	13/16"	175	1	½" MPT	22888	29.00	20.34	18.29	6½
1	Industrial	25	¾"	1 1/2"	200	2	¾" MPT	22889	50.00	35.09	31.57	13
2	HD Industrial	25'	¼"	5/8"	300	2	¼" MPT	12666	19.60	13.71	12.31	4
2	HD Industrial	50	¼"	5/8"	300	2	¼" MPT	22010	33.60	23.53	21.16	9
3	Material	15'	⅜"	11/16"	200	2	⅜" FPT	12530	23.60	16.51	14.84	3
3	Material	25	⅜"	11/16"	200	2	⅜" FPT	22011	35.65	24.96	22.48	5
—	Utility	15'	¼"	—	75	—	¼" FPT	12096	5.56	3.86	3.59	1
—	Utility	25	¼"	—	75	—	¼" FPT	12097	7.64	5.35	4.96	2
—	Utility	50	¼"	—	75	—	¼" FPT	22009	13.56	9.49	8.83	5
—	Garage	25	¼"	—	200	1	•	12952	8.78	6.14	5.70	3

BULK HOSE—250 FT. LENGTHS, LESS COUPLINGS

1	Industrial	250'	¼"	½"	200	1	None	22890	\$103.75	\$72.62	—	22
1	Industrial	250	⅜"	11/16"	200	1	None	22891	119.30	83.53	—	42
1	Industrial	250	½"	13/16"	175	1	None	22892	165.00	115.40	—	57

Has ¼" air chuck at one end, ¼" MPT fitting at other end.

1/4, 3/8 & 1/2" NPT MALE & FEMALE HOSE BARBS

All Brass Construction. For Coupling Rubber or PVC Bulk Hose to Tapered Pipe Threads



Male Fitting



Female Fitting

For fast, easy hook-up of bulk hose to tapered pipe thread fittings. For safety purposes, the additional use of hose clamps recommended. See Index under Hose clamps. Speedaire brand.

MALE & FEMALE HOSE BARBS

Sold only in multiples of 10

Fig.	Hose Size	Pipe Size	Stock No.	Retail	Each	Lots 10 Ea.	Lots 50 Ea.	Lots 100 Ea.	Shpg. Wt.
1	¼" x ¼"	¼" MPT	6X409	\$0.96	\$0.50	\$0.45	\$0.40	1 oz.	
1	⅜" x ⅜"	⅜" MPT	6X410	1.21	.82	.55	.50	1 oz.	
1	½" x ½"	½" MPT	6X411	1.77	.91	.82	.74	2 oz.	
2	¼" x ¼"	¼" FPT	6X412	1.45	.73	.66	.60	1 oz.	
2	⅜" x ⅜"	⅜" FPT	6X413	1.72	.85	.77	.69	2 oz.	
2	½" x ½"	½" FPT	6X414	2.42	1.22	1.10	.99	2 oz.	

BRASS HOSE FITTINGS



A



B

Hose End

Hose Mender

For fast, screw-on brass hose fittings. Perished design for no-slip, air-tight connection. Fits all leading air tools, paint guns. Speedaire Brand.

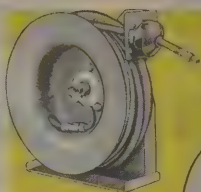
BRASS HOSE ENDS AND MENDERS

Fig.	Hose ID	Hose OD	Stock No.	Retail	Each	Lots Each	Lots 50 Ea.	Shpg. Wt.
A	¼"	½"	6X423	\$1.90	\$1.23	\$1.14	\$1.08	1 oz.
A	⅜"	⅜"	2X769	1.70	1.11	0.97	—	1 oz.
A	½"	11/16"	6X424	1.95	1.27	1.17	1.11	1 oz.
A	¾"	13/16"	6X425	4.50	2.93	2.70	2.57	3 oz.
B	¼"	½"	6X426	2.75	1.78	1.65	1.57	1 oz.
B	⅜"	⅜"	2X770	2.55	1.66	1.45	—	1 oz.
B	½"	11/16"	6X427	3.20	2.08	1.92	1.82	3 oz.

Automatically Extend & Retract. Self-Contained Air & Water Hose. 1/4, 3/8 & 1/2" ID Hose Sizes

Spring-driven hose reels extend, automatically retrieve and store air and water hose. For industrial, commercial, automotive, agricultural, dairy and maintenance applications. Self-contained hose reels help eliminate the job safety hazards of unstored hose and assure extended hose life. Reels feature a positive latch to maintain the desired working length of hose. A pull on the hose and reel automatically retracts hose. Designed for wall, floor, ceiling or truck mounting by positioning the adjustable guide arm. Nos. 22862 & 22863 measure 12 1/2" H x 12 1/2" L x 9 1/4" W. Nos. 22864 & 22865 measure 22 1/2" H x 20 1/2" L x 9 1/4" W.

Hoses are rated for 200 PSI maximum pressure, 210° F maximum temperature. Reels are all-welded, solid construction with heavy duty brackets to help counteract hose pull. Special declutching spring arbor eliminates the possibility of spring damage due to reverse winding of the spool. Reels are permanently factory lubricated. Red enamel finish. See table below for dimensions, specifications and price data. Hose included with all reels. Speedaire brand.



**1/4" ID, 35 FT.
HOSE REEL**

\$78.34

No. 22862, Lots 3

B

**3/8" ID, 50 FT.
HOSE REEL**

\$159.03

No. 22864, Lots 3

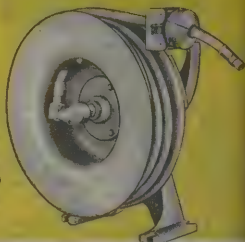


Fig.	Hose Length	Hose ID & MPT Outlet	FPT Reel Inlet	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
A	35'	1/4"	3/8"	22862	\$109.95	\$ 82.46	\$ 78.34	21
A	25	3/8"	3/8"	22863	113.65	85.22	80.96	21
B	50	3/8"	1/2"	22864	223.00	167.39	159.03	52
B	50	1/2"	1/2"	22865	228.50	171.33	162.76	54

100 to 300 PSI GAUGES for AIR, WATER, OIL, ETC.

Bottom Connection



Back Connection

\$1.91 Lots 10

Nos. 4X512, 4X513

Modern design and construction features far superior to metal case gauges. Casing is high-impact plastic to make

gauge non-corrosive, dust-proof and water resistant. Precision brass mechanism open face dial with easy-to-read numerals. Longer service life at less cost. Gray color. Individually cartoned. U.S. Gauge brand.

1/8" BACK CONNECTION GAUGE							
PSI	Dial	Stock No.	Retail	Each	Lots 10	Wt.	
200	1 1/2"	6X114	\$6.55	\$3.60	\$3.42	1 oz.	
1/4" BACK CONNECTION GAUGES							
100	2"	4X515	\$4.40	\$2.42	\$2.30	4 oz.	
200	2	4X516	4.40	2.42	2.30	4 oz.	
300	2	4X790	4.40	2.42	2.30	4 oz.	
1/4" BOTTOM CONNECTION GAUGES							
100	2"	4X512	\$3.65	\$2.01	\$1.91	4 oz.	
200	2	4X513	3.65	2.01	1.91	4 oz.	
300	2	4X514	3.80	2.09	1.99	3 oz.	

AUTOMATIC DRAIN VALVE

Releases Condensation Build-Up in Air Tank



\$19.60

Automatically drains equipment each time compressor cycles—eliminates manual draining—delivers dryer air—recaptures full storage capacity. 10 PSI differential opens valve on each compressor cycle. Trouble-free—no floats, magnets, buckets or pistons. Will handle up to 100 HP compressor. 30 to 200 PSI pressure range. No field adjustments. Installed in 3/8" NPT inlet drain tap in compressor tank, and piped to drain. Valve is also used on filters and after-cooler separators. Speedaire brand. Shpg. wt. 1 1/2 lbs.

No. 22166. Retail \$24.50. Each.....\$19.60

SELF-STORING AIR HOSE



\$5.75

No. 22252 1/4 Inch, 12 Feet

Extruded from heavy duty nylon. Retracts to coil 1/30th of max. length. Oil and moisture resistant. 200 psi max. working pressure. Reusable male fitting on one end swivel fitting on other end, each with coil spring guard. Speedaire brand.

Hose ID	Extended Length	Stock No.	Retail	Each	Shpg. Wt.
1/4"	12 ft.	22252	\$7.00	\$5.75	9 oz.
1/4"	25	22253	10.20	7.85	14 oz.
3/8"	12	22254	11.50	9.90	2
3/8"	25	22860	17.00	11.90	1
1/2"	25	22861	26.40	18.48	2

PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you place pick-up orders by phone. Our people can have your merchandise ready when your truck arrives, and a special Will-Call section at our counter gives your driver extra-fast service.

AIR LINE ACCESSORIES & BLOW GUNS



1 AIR TANK VALVE. For pumps, compressors, etc. $\frac{1}{8}$ " male NPT. $1\frac{1}{2}$ " L. Brass. Wt. 2 oz. No. 1X361. Retail 80c. Each 54c; lots 10.....49c

2 RIGHT ANGLE AIR CHUCK. Heavy Duty machined brass construction. For inflating tires, tanks, etc. $\frac{1}{4}$ " Female NPT. Shpg. wt. 3 oz. No. 4X787. Retail \$2.00. Each \$1.30; lots 10, \$1.14

3 STRAIGHT BODY AIR CHUCK. General-purpose tire, tank, etc. inflating air chuck. Straight-head, sealing-type permits easy access. Serviceable. $\frac{1}{4}$ " Female NPT. Shpg. wt. 1 oz. No. 4X673. Retail \$1.20. Each 78c; lots 10.....68c

AIR LINE BLOW GUNS

4 SPRAY-CLEANER. 1 qt. capacity. Use with any grease, solvent, oil, light paint, etc. Handle pressure controls air supply; nozzle, adjustable. Quick, snap-on connection to Schrader-type right angle air chuck as No. 4X787. Wt. 1 lb. No. 4X395. Retail \$11.85. Each \$8.29; lots 4, \$7.70

5 SNAP-ON BLOW GUN. Snaps onto Schrader-type right angle air chuck. 9" nozzle. Handle pressure gives instant control of air blast. Baked upper bronze finish. Shpg. wt. 8 oz. No. 4X394. Retail \$3.15. Each \$2.21; lots 4, \$2.06

6 POWER-JET BLOW GUN. Button actuated. Hanging hook. One-piece valve gives excellent air control. Self-cleaning. $\frac{1}{4}$ " Female NPT, 4 oz. No. 2X424. Retail \$3.75. Each \$2.44; lots 10, \$2.14

7 8 HEAVY DUTY, POWER-JET BLOW GUNS. Positive lever-control for full-range air delivery. Self-cleaning, leakproof, rustproof stainless steel one-piece valve. Hanging hook is integral part of gun. Brass nozzle. No. 5X786 meets requirements of Par. 1910.242(b) of the Occupational Safety & Health Act; max. pressure with nozzle blocked of 25 PSI at 100 PSI inlet. Shpg. wt. 8 oz.

Nozzle Size	OD	Orifice	Overall Length	Stock No.	Each	Lots 10
$2\frac{1}{4}$ "	$\frac{1}{2}$ "	$\frac{1}{16}$ "	5 $\frac{1}{2}$ "	2X492	\$2.79	\$2.45
$1\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{1}{8}$ "	4 $\frac{1}{2}$ "	5X786	3.09	2.71

9 SAFETY BLOW GUN NOZZLE. Nozzle converts standard Speedaire blow guns (No. 2X424 & 2X492) and most other makes to meet requirements of Occupational Safety & Health Act Par. 1910.242(b). Maximum pressure with nozzle blocked off 25 PSI at 100 PSI inlet. Gun with nozzle uses 40% compressed air and 60% room air thru use of unique aspirator. Wt. 9 oz. No. 5X787. Retail \$1.25. Each 81c; lots 10.....71c



AIR LINE COUPLERS AND PLUGS

1000 PSI. Industry Interchangeable. Full Flow Industrial-rated air coupler bodies are steel, heavy cadmium-plated to prevent rust. Meets and exceeds specification of U. S. Mil-C-4109C, and are industry interchangeable. Swivel action body steps air hose flexible around sharp bends. When disconnected, coupler body valve shuts off air flow and automatically opens full flow valve when recoupled with plug. $\frac{1}{8}$, $\frac{1}{4}$ & $\frac{3}{8}$ " series male & female couplers & plugs are interchangeable with each other. $\frac{1}{2}$ & $\frac{3}{4}$ " series male & female couplers & plugs are also interchangeable with each other.



COUPLER ASSEMBLY
Male Coupler Plug
& Female Body

COUPLER ASSEMBLIES

NPT Size	Stock No.	Retail	Each	Lots 10	Wt.
$1/4$ "	1X919	\$3.30	\$2.14	\$1.88	5 oz.
$3/8$ "	4X791	4.20	2.72	2.39	6 oz.
$1/2$ "	6X422	7.60	4.95	4.33	11 oz.



Female Coupler

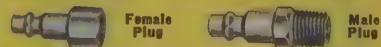
Male Coupler

$\frac{1}{8}$ & $\frac{3}{8}$ " SERIES MALE & FEMALE COUPLERS

Size	Stock No.	Retail	Each	Lots 10	Wt.
FPT	4X396	\$2.70	\$1.77	\$1.54	3 oz.
MPT	4X397	2.75	1.80	1.57	3 oz.
FPT	4X792	3.10	2.02	1.77	5 oz.
MPT	4X793	3.10	2.02	1.77	5 oz.

$\frac{1}{2}$ & $\frac{3}{4}$ " SERIES MALE & FEMALE COUPLERS

Size	Stock No.	Retail	Each	Lots 10	Wt.
FPT	6X415	\$5.85	\$3.80	\$3.33	3 oz.
MPT	6X416	5.80	3.78	3.31	3 oz.
FPT	6X417	6.60	4.28	3.78	8 oz.
MPT	6X418	6.30	4.09	3.59	8 oz.



Female Plug

Male Plug

$\frac{1}{8}$, $\frac{1}{4}$ & $\frac{3}{8}$ " SERIES MALE & FEMALE PLUGS

NPT Size	Stock No.	Retail	Each	Lots 10	Wt.
$1/8$ " MPT	4X672	\$0.60	\$0.37	\$0.34	1 oz.
$1/4$ " MPT	2X169	.60	.37	.34	1 oz.
$1/4$ " FPT	2X170	.80	.51	.46	1 oz.
$3/8$ " MPT	4X794	1.00	.65	.57	1 oz.
$3/8$ " FPT	4X795	1.50	.96	.86	1 oz.

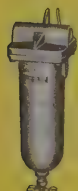
$\frac{1}{2}$ & $\frac{3}{4}$ " SERIES MALE & FEMALE PLUGS

NPT Size	Stock No.	Retail	Each	Lots 10	Wt.
$1/2$ " MPT	6X420	\$1.70	\$1.10	\$0.97	1 oz.
$1/2$ " FPT	6X419	1.80	1.18	1.03	1 oz.
$3/4$ " FPT	6X421	2.20	1.44	1.25	3 oz.

SPEEDAIRE AIR LINE AND AUTO-DRAIN FILTERS

Lots 3
\$7.60

Speedaire



A

\$12.48

No. 2Z328

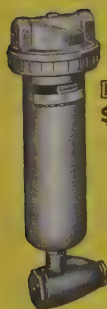


B



\$11.44

No. 2Z763



D

\$31.76

No. 2Z322



E

\$20.07

No. 2Z762

A 150 PSI AIR LINE FILTER

Die cast unit, removable spun-rayon element. Takes oil, moisture, foreign matter from air lines. Max. supply pressure 150 psi; up to 15 CFM flow ranges. 1/4" NPT side inlet, outlet. Manual drain valve. 7 1/2" H x 3" W. Shpg. wt. 1 lb.

No. 2Z435. Retail \$15.00. Each \$8.25; lots 3, \$7.60

B 200 PSI HEAVY DUTY AIR LINE FILTERS

Die cast zinc body. 1st stage removes heavy contaminants centrifugally; 2nd stage removes impurities down to 40 microns. Max. supply pressure 200 psi, operating temperature 120° F. Plastic baffles, vane-type deflectors for removing condensate, manual drain valve.

	Max. NPT CFM	H	W	Stock No.	Retail	Each	Shpg. Wt.
3/8"	100	7 7/8"	2 3/4"	2Z328	\$16.28	\$12.48	2
1/2	200	9 5/8"	3 1/4"	2Z329	19.76	15.04	2 1/2
3/4	400	11 1/2"	4 1/4"	2Z330	34.34	26.42	6

C 200 PSI HEAVY DUTY AIR LINE FILTERS

Similar to (B) above, but feature transparent, shatterproof plastic bowls. Maximum 200 psi pressure, 120° F operating temperature.

	Max. NPT CFM	H	W	Stock No.	Retail	Each	Shpg. Wt.
3/8"	100	5 5/8"	2 1/4"	2Z763	\$13.48	\$11.44	1
1/2	200	6 1/4"	3 1/4"	2Z764	15.98	13.58	2
3/4	400	8 3/4"	4 1/2"	2Z765	29.99	25.31	4 1/2

D 300 PSI AUTOMATIC DRAIN FILTER

2-stage die cast zinc body. As liquid rises in bowl, float opens pilot valve, admits air to chamber. As pressure increases, diaphragm opens scavenger valve, blows out liquids/impurities thru bronze drain. 150 CFM flow rate. 300 psi pressure, 200° F operating temp. 1/4" NPT side inlet, outlet. 11 1/2" H x 3 1/2" W. Shpg. wt. 4 1/4 lbs.

No. 2Z322. Retail \$35.81. Each \$31.76

E 200 PSI AUTOMATIC DRAIN FILTER

Features shatterproof plastic bowl, integral automatic drain. Max. 200 psi supply pressure, 120° F operating temperature. 1/4" NPT port sizes. 5 5/8" H x 2 1/2" W. Shpg. wt. 1 1/2 lbs.

No. 2Z762. Retail \$23.95. Each \$20.07

SPEEDAIRE REGULATORS AND LUBRICATORS

Speedaire



F

\$6.76

No. 1Z838



G

\$13.32

No. 2Z458

F HEAVY DUTY INDUSTRIAL REGULATORS

300 psi max. input, 0-225 adjustable output. Balanced disc, aluminum spring cage, efficient aspirator, reinforced Buna-N diaphragm, brass seat, stainless steel strainer. Die cast zinc body. 3/8, 1/2 and 3/4" units all have two 1/4" gauge ports. The 1/4" unit has an extra bottom high pressure or inlet port.

	Max. NPT CFM	H	W	Stock No.	Retail	Each	Shpg. Wt.
1/4"	50	4 5/8"	2"	1Z838	\$9.25	\$6.76	1
3/8	100	6	2 3/4"	1Z696	11.77	9.84	1 1/2
1/2	200	7	3 1/4"	1Z885	14.73	12.26	3
3/4	400	10	4 3/8"	2Z321	31.03	25.68	6

G AIR LINE MIST LUBRICATORS

Automatic by-pass for wide operating range w/ exceptional low pressure drop. "Dial-set" feed adjustment. Fill with equipment running. Max. supply pressure 200 psi, 40-120° F operating temp. Zinc body. Clear, shatterproof bowl.

	Oil Bowl	H	W	Stock No.	Retail	Each	Shpg. Wt.
1/4"	5 oz.	7 7/8"	2 1/4"	2Z458	\$15.98	\$13.32	2
3/8	5 oz.	7 7/8"	2 1/4"	1Z886	15.98	14.04	1 1/2
1/2	8 oz.	8 1/8"	3 1/4"	2Z459	17.50	14.55	2
3/4	16 oz.	10 1/2"	4 1/4"	2Z460	28.97	24.15	3

SPEEDAIRE COMBINATION FILTERS/REGULATORS

200 PSI COMB. FILTER/REGULATOR

Heavy duty, two-stage filter (B) and regulator (F), 0-300 psi pressure gauge, 200 psi max. supply pressure, 0-225 psi adjustable output.

	Max.				Stock			Shpg.
NPT	CFM	H	W	D	No.	Retail	Each	Wt.
3/8"	100	9"	6 1/4"	3"	7Z355	\$32.45	\$24.74	3 1/4
1/2	200	10 1/2"	7 1/4"	3 3/4"	7Z356	39.09	29.72	5 3/4
3/4	400	12 3/4"	10 1/8"	4 1/8"	7Z357	69.77	54.52	12

150 PSI COMBINED FILTER/REGULATOR

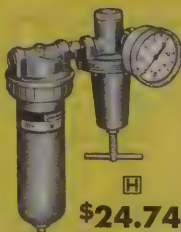
Max. 15 CFM air flow, 150 psi operating pressure. Removable spun-rayon element, manual tank drain. Die cast body. Two gauges: main air line and regulated pressure line. Four 1/4" NPT connections. 10 1/2" H x 4" W. Shpg. wt. 3 lbs.

No. 2Z436. Comb. Filter/Regulator. Retail \$42.00. Each \$24.69; lots 3.....\$20.89

REGULATOR/MOISTURE TRAP

Removes oil and moisture from air lines, regulates output pressure from 0-100 psi. Maximum supply pressure 150 psi. 1/4" FPT connections: inlet is on moisture tank, outlet on regulator. Includes bracket, pressure gauge, manual drain valve. Regulator is die cast construction and moisture trap is drawn steel. 7 1/2" high, 2 1/2" diameter. Speedaire brand. Shpg. wt. 3 lbs.

No. 1Z476. Comb. Regulator/Moisture Trap. Retail \$26.95. Each \$17.53; lots 3.....\$16.70



\$24.74

No. 7Z355



\$20.89

Lots 3

Speedaire



\$16.70

Lots 3

SPEEDAIRE MINI-FILTERS & MINI-REGULATORS

200 PSI AIR LINE MINI-FILTER

Self-relieving type: pressure can be set without low thru the unit. 1/4" port size, 200 psi max. supply pressure, 120°F max. operating temperature. Alum. body, porous bronze filter element removes particles down to 20 microns. Clear, shatterproof plastic bowl. 4 H x 1 1/16" W. Shpg. wt. 4 oz.

No. 2Z766. Retail \$7.97. Each.....\$6.82

300 PSI AIR LINE MINI-REGULATOR

Perfect for small applications. 1/4" port size; max. supply pressure 300 psi, 0-125 psi regulated pressure range; operating temperature -0 to 20°F. Alum. body; 3 H x 1 3/8" W. Shpg. wt. 6 oz.

No. 2Z767. Retail \$5.89. Each.....\$5.11

200 PSI OIL MIST MINI-LUBRICATOR

Ideal for small cabinets, air tools. 1/4" port size; 200 psi max. supply pressure, 120°F max. operating temperature. By-pass gives wide operating range without excessive pressure drop. Clear, shatterproof plastic bowl. Aluminum body. 4 7/16 H x 1 1/16" W. Shpg. wt. 3 oz.

No. 2Z768. Retail \$12.74. Each.....\$10.69

200 PSI MINI-FILTER/REGULATOR

Comb. mini-filter (J), No. 2Z766, and mini-regulator (K), No. 2Z767. 200 psi pressure gauge; 200 psi maximum supply pressure. Max. 120°F operating temp. Clear shatterproof plastic bowl. 6 H x 1 1/2" W. Shpg. wt. 12 oz.

No. 7Z433. Mini-Filter/Regulator. Retail \$19.91. Each \$15.26; lots 4.....\$13.36



No. 2Z767

\$5.11

\$6.82

No. 2Z766



\$10.69

No. 2Z768

Speedaire



\$13.36

Lots 4

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU

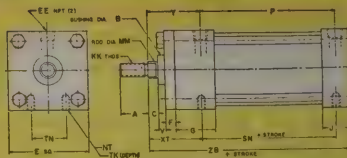


SPEEDAIRE DOUBLE ACTING PNEUMATIC CYLINDERS



- Meets all JIC and NFPA standards
- Permanently lubricated
- 250 PSI maximum operating air pressure
- 400 PSI hydraulic (non-shock)
- Bottom flush mounting holes standard on all cylinders

No. 6X370
\$40.38
 1 1/2 x 1"
 Cylinder



- Unique design permits fast addition of mounts without removing tie bolts. Eliminates re-torquing

Heavy duty double acting Speedaire cylinders meet all JIC (Joint Industry Conference) and NFPA (National Fluid Power Association) standards. Unique design provides for easy addition of mounts without removing tie bolts or need for re-torquing. Available in 1 1/2 to 4" bore with 1 to 10" stroke. All 8 and 10" stroke cylinders have adjustable cushion seals on both ends to absorb shocks, minimize noise and increase cylinder life. Seals are self-centering and pressure loaded for positive cushioning action. When pressure is reversed, seal lip allows pressure to bypass and act on full piston area for fast breakaway.

Constructed of lightweight, high tensile strength aluminum. Permanently lubricated, but it is recommended that clean, lubricated air be used to maximize cylinder life. Polished chrome plated steel piston rods have 100,000 PSI minimum yield. Tie rods are of stress proof steel and torqued to maintain compression on end seals. Buna N piston lip seals and urethane rod lip seals provide low friction characteristics and long life. Cylinders come with bottom flush mounting holes, but can easily be mounted with optional brackets listed on opposite page. Silver and black finish. Speedaire brand.

FORCE VOLUME CHART FOR 1 1/2 to 4" BORE CYLINDERS

Bore	Piston Area, Sq. In.	Force in Lbs. @ PSI								Cu. Ft. Displ. Per In. of Stroke
		40	60	80	100	125	150	175	200	
PUSH FORCES										
1½"	1.77	71	106	142	177	221	266	310	353	.00102
2	3.14	126	189	251	314	392	471	549	628	.00182
2½	4.91	196	295	393	491	614	737	859	982	.00284
3¼	8.30	332	498	664	830	1037	1245	1452	1659	.00480
4	12.57	503	754	1005	1257	1571	1886	2200	2513	.00727
PULL FORCES*										
1½"	1.463	59	88	117	146	183	220	256	292	.00084
2	2.833	114	171	226	283	354	425	495	567	.00164
2½	4.603	184	277	368	460	576	691	805	921	.00266
3¼	7.515	301	451	601	751	939	1127	1315	1502	.00435
4	11.785	472	707	942	1178	1473	1768	2063	2356	.00682

(*) Rod size of 5/8" diameter on 1 1/2, 2 and 2 1/2" bores and 1" diameter on 3" and 4" bores are deducted from piston area and force table on return or pull.

CYLINDER DIMENSIONS

Bore	A	B	C	E	EE	F	G	J	KK	MM	NT	P	SN	TK	TN	V	XT	Y	ZB
1 1/2"	3/4"	1 1/8"	3/4"	2"	1 1/4"	3/4"	1 1/4"	1"	1 1/2"-20	5/8"	1 1/2"-20	2 1/4"	2 1/4"	3/4"	5/8"	1 1/4"	1 1/4"	2"	4 3/4"
2"	3/4"	1 1/8"	3/4"	2 1/4"	1 1/4"	3/4"	1 1/4"	1"	1 1/2"-20	5/8"	1 1/2"-20	2 1/4"	2 1/4"	3/4"	5/8"	1 1/4"	1 1/4"	2"	4 3/4"
2 1/2"	3/4"	1 1/8"	3/4"	3"	1 1/4"	3/4"	1 1/4"	1"	1 1/2"-20	5/8"	1 1/2"-20	2 1/4"	2 1/4"	3/4"	5/8"	1 1/4"	1 1/4"	2"	4 3/4"
3"	1 1/8"	1 1/2"	3/4"	3 3/4"	1 1/4"	3/4"	1 1/4"	1 1/4"	1 1/2"-20	1"	1 1/2"-20	2 1/4"	2 1/4"	3/4"	5/8"	1 1/4"	1 1/4"	2 1/4"	5 1/4"
4"	1 1/8"	1 1/2"	3/4"	4 1/2"	1 1/4"	3/4"	1 1/4"	1 1/4"	1 1/2"-20	1"	1 1/2"-20	2 1/4"	2 1/4"	3/4"	5/8"	1 1/4"	1 1/4"	2 1/4"	5 1/4"

Stroke*	Stock No.	Retail	Each	Shpg. Wt.
1 1/2" BORE CYLINDERS				
1"	6X370	\$47.50	\$40.38	2 1/4"
2"	6X371	48.85	41.53	2 3/4"
3"	6X372	50.24	42.71	3"
4"	6X373	51.60	43.88	3"
5"	6X374	53.01	45.06	3 1/2"
6"	6X375	54.42	46.28	3 3/4"
8"	6X376	75.75	64.37	4"
10"	6X377	78.50	66.70	4 1/4"

Stroke*	Stock No.	Retail	Each	Shpg. Wt.
2" BORE CYLINDERS				
1"	6X378	54.38	46.23	3"
2"	6X379	55.89	47.51	3 1/4"
3"	6X380	57.38	48.78	3 1/2"
4"	6X381	58.89	50.06	3 3/4"
5"	6X382	60.41	51.35	4"
6"	6X383	61.97	52.68	4 1/2"
8"	6X384	83.50	70.98	5"
10"	6X385	86.50	73.65	5 1/4"

(*) 8 and 10" stroke cylinders have cushion seals on both ends to absorb shocks.

Stroke*	Stock No.	Retail	Each	Shpg. Wt.
2 1/2" BORE CYLINDERS				
1"	6X386	\$59.82	\$50.85	3 3/4"
2"	6X387	61.44	52.23	4"
3"	6X388	63.09	53.63	4 1/4"
4"	6X389	64.71	55.01	4 1/2"
5"	6X390	66.35	56.40	5"
6"	6X391	68.03	57.83	5 1/4"
8"	6X392	89.85	76.37	6"
10"	6X393	93.10	79.12	6 1/2"

Stroke*	Stock No.	Retail	Each	Shpg. Wt.
3 1/4" BORE CYLINDERS				
2"	6X394	78.71	66.91	8"
4"	6X395	83.50	70.98	9"
6"	6X396	88.35	75.10	10"
8"	6X397	115.35	98.05	11"
10"	6X398	120.15	102.12	12"

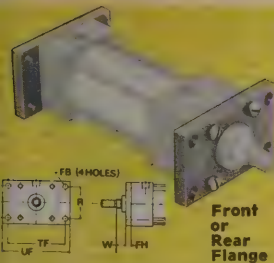
Stroke*	Stock No.	Retail	Each	Shpg. Wt.
4" BORE CYLINDERS				
2"	6X399	91.58	77.85	11"
4"	6X400	97.11	82.55	12"
6"	6X467	102.71	87.31	13"
8"	6X468	130.50	110.93	14"
10"	6X469	136.00	115.63	15"

SPEEDAIRE END MOUNTS FOR AIR CYLINDERS

All Mounts Added Without Removing Tie Bolts.
Eliminates Re-torquing

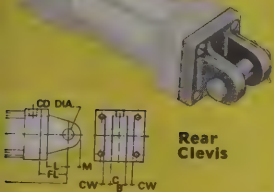
FRONT OR REAR FLANGE MOUNT

Made of mild steel. Mounts directly to cylinder rear with 4 bolts provided. Front mounting requires 4 bolt removal of retaining plate and addition of flange.



Front or Rear Flange

Bore	Stock No.	Retail	Each	Lots 2	Shpg. Wt.
1½"	6X470	\$4.41	\$3.75	\$3.60	1
2"	6X472	5.19	4.41	4.24	1
2½"	6X474	6.26	5.32	5.10	1
3¼"	6X478	8.39	7.13	6.85	1½
4"	6X480	9.20	7.82	7.50	1½



Rear Clevis

Bore	Stock No.	Rod Dia.	FB	FH	R	TF	UF	W
1½"	6X470	5/8"	5/8"	3/8"	1.43"	2¾"	3¾"	5/8"
2"	6X472	5/8"	5/8"	3/8"	1.84	3¾"	4¾"	5/8"
2½"	6X474	5/8"	5/8"	3/8"	2.19	3¾"	4¾"	5/8"
3¼"	6X478	1"	1"	5/8"	2.76	4¾"	5½"	¾"
4"	6X480	1"	1"	5/8"	3.32	5½"	6¼"	¾"

REAR CLEVIS MOUNT

Made of rugged cast iron. Fits 1½ through 4" bore. Includes clevis pin and 4 mounting bolts.

Bore	Stock No.	Retail	Each	Lots 2	Shpg. Wt.
1½"	6X471	\$8.07	\$6.86	\$6.59	1½
2"	6X473	9.10	7.81	7.50	1½
2½"	6X475	10.55	8.97	8.61	1½
3¼"	6X479	13.00	11.05	10.61	2
4"	6X481	14.61	12.42	11.92	2

Bore	Stock No.	Rod Dia.	CB	CD	CW	FL	L	M
1½"	6X471	5/8"	3/4"	1½"	1½"	1½"	3½"	5/8"
2"	6X473	5/8"	3/4"	1½"	1½"	1½"	3½"	5/8"
2½"	6X475	5/8"	3/4"	1½"	1½"	1½"	3½"	5/8"
3¼"	6X479	1"	1½"	3/4"	6/8"	1½"	1½"	7/8"
4"	6X481	1"	1½"	3/4"	6/8"	1½"	1½"	7/8"

ROD CLEVIS MOUNT

Made of rugged cast iron. Fits 1½ through 4" bore cylinders. Includes clevis pin.

Bore	Stock No.	Retail	Each	Lots 2	Shpg. Wt.
1½-2½"	6X476	\$8.80	\$7.47	\$7.17	1
3¼-4"	6X482	13.95	11.83	11.36	1

Bore	Stock No.	CB	CD	CE	CH	CW	ER	KK	L
1½-2½"	6X476	3/4"	1½"	1½"	3/4"	1½"	1½"	1½-20	3/4"
3¼-4"	6X482	1½"	3/4"	2½"	1½"	5/8"	3/4"	3/4-16	1½"

EYE BRACKET

Made of rugged cast iron. Provides swivel mounting when used with rod or rear clevis mount.

Bore	Stock No.	Retail	Each	Lots 2	Shpg. Wt.
1½-2½"	6X477	\$8.02	\$6.82	\$6.54	1½
3¼-4"	6X483	13.49	11.47	11.01	2

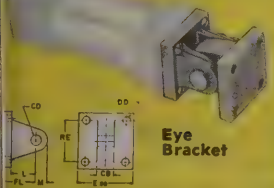
Bore	Stock No.	CB	CD	E	FL	L	M	RE	DD
1½-2½"	6X477	3/4"	1½"	2½"	1½"	3/4"	5/8"	1.84"	1½"
3¼-4"	6X483	1½"	3/4"	3½"	1½"	1½"	7/8"	2.94	1½"

CLEVIS PIN DIMENSIONS

CD	HP	LH	LP	Included With Rear Clevis Stock Nos.	Included With Rod Clevis Stock Nos.
½"	5/8"	2¼"	2½"	6X471, 6X473, 6X475	6X476
¾"	¾"	3½"	3¾"	6X479, 6X481	6X482



Rod Clevis

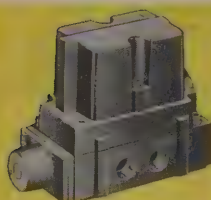


Eye Bracket



Clevis Pin

SPEEDAIRE SOLENOID AIR CONTROL VALVES

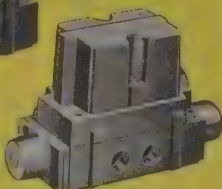


No. 6X364

\$54.57

Lots 3

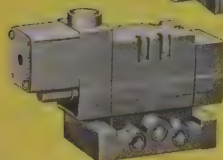
Speedaire



No. 6X365

\$71.15

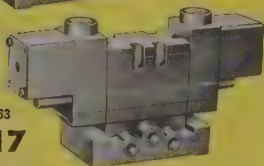
Lots 3



No. 6X362

\$34.51

Lots 3



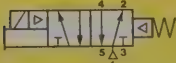
No. 6X363

\$51.17

Lots 3

JIC (Joint Industry Conference) Symbols

14 Operator End



12 Operator End

A Pressure to port 2, exhaust to port 5 when de-energized. Pressure to port 4, exhaust to port 3 when energized.

14 Operator End



12 Operator End

B Pressure to port 4, exhaust to port 3 when #14 solenoid is last energized. Pressure to port 2, exhaust to port 5 when #12 solenoid is last energized.

Inline, sub-based mounted, 4-way, 2-position, 5-ported solenoid valves to operate single and double acting air cylinders. Valves can be piped for 2-way and 3-way operation as well as converted for dual pressure. 6X362 & 6X363 can be converted for vacuum service to 28" Hg. They can be serviced without disturbing piping or wiring. Solenoid pilot operated. Standard recessed non-locking manual override allows system testing without electricity. Operates in any position. 30 to 150 PSI operating pressure range. Internal air pilot supply with expansion chamber, delivers positive shifting even during line pressure fluctuations. Maximum ambient temperature is 130° F for continuous duty, 160° F for intermittent duty and minimum operating temperature is 0° F. Valves are shipped prelubricated, but it is recommended they be used with clean, lubricated air to maximize service life.

OPERATION:

A Single solenoid, spring-air return valves with single pressure at inlet port #1. Solenoid operator #14 is de-energized with pressure at inlet port 1 connected to outlet port 2 and outlet port 4 connected to exhaust port 5. Solenoid operator #12 is energized with pressure at inlet port 1 connected to outlet port 4 and outlet 2 connected to exhaust port 3.

B Double solenoid valves are actuated by momentary electrical signal alternately on each of the two solenoids. In operation of single pressure at inlet port 1, solenoid operator #14 is energized last when pressure at inlet port 1 is connected to outlet port 4 and outlet port 2 connected to exhaust port 3. Solenoid operator #12 is energized last when pressure at inlet port 1 is connected to outlet port 2 and outlet port 4 is connected to exhaust port 5.

3/8" High Flow Solenoid Valves. Includes long-lasting nylon-encapsulated solenoid coil and spool-poppet construction. All parts are corrosion resistant. Coil rating is 120VAC, 60 Hz—110VAC, 50 Hz, 8.5 watts; .24 amps inrush and .12 amps holding. 1.9 average Cv*. 104 CFM free flow at 100 PSI inlet allows fast cycling with larger bore, long stroke cylinders. See listing on opposite page for optional No. 6X369 flow control for use in exhaust port.

1/4" Air Control Solenoid Valves. Coil rating is 120VAC, 60 Hz—110VAC, 50 Hz, 6.5 watts; .18 amps inrush and .11 amps holding. .6 average Cv*. 30 CFM free flow at 80 PSI inlet. See listing on opposite page for optional No. 6X368 flow control for use in exhaust port.

(*) Coefficient of volume: The amount of water in GPM at standard conditions (60° F, specific gravity = 1) which will pass through the valve at full open with a 1 PSI pressure drop.

Port Size	Solenoid	Height	Overall Dimensions Width	Length	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
3/8"	Single	4.38"	2.56"	5.77"	6X364	\$64.20	\$57.78	\$54.57	3
3/8"	Double	4.38	2.56	6.62	6X365	83.70	75.33	71.15	3½
1/4"	Single	4.11	2.55	6.69	6X362	40.60	36.54	34.51	2
1/4"	Double	4.11	2.55	8.28	6X363	60.20	54.18	51.17	2½

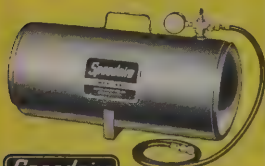
7 & 9 GAL. PORTABLE AIR TANKS

Compact & Economical. Both With 6 Ft. Air Hose, Tire Chuck

\$25.35

7 Gal.

Portable air supply away from compressor—for tire inflation, drying, etc. Compact, lightweight, economical. Equipped with 6 ft. air hose, tire chuck, 200 PSI pressure gauge, push-button shut-off valve and safety relief valve. Maximum working pressure 150 PSI. Gray enamel finish. Speedaire brand.



Speedaire

No. 2Z761

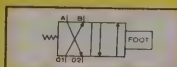
Size	Dimensions			Stock No.	Retail	Each	Shpg. Wt.
	L	H	D				
7 gal.	24"	13"	10½"	2Z241	\$39.00	\$25.35	20
9 gal.	26¾"	11½"	11½"	2Z761	40.00	29.35	25

FOOT CONTROL AIR VALVE

\$50.49

Lots 3

Speedaire



JIC (Joint Industry Conference Symbols)

4-way, 2-position, direct operated, spring return, spool-poppet foot valve for use with air cylinders. Mechanism is pneumatically balanced with actuation free from effect of line pressure. Can be operated as 2-way or 3-way, open or closed center. 1.6 Cv., 0 to 150 PSI operating pressure. Can be used for vacuum service to 28" Hg.

3/8" NPT tapped ports are easily ported down or use with 1/8 or 1/4" systems. All valve parts are corrosion resistant. Poppet in valve is integral with spool, which is only moving part. Spool and stainless steel return spring can be removed from valve body through the top. In normal (spring returned) position, port A is connected to port 01 and port B is connected to port 02. When actuated, port A is connected to port 02 and port B is connected to port 01. 3/2 L x 3 3/2 W x 4 1/2" H. Speedaire brand. Shpg. wt. 2 lbs.

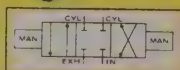
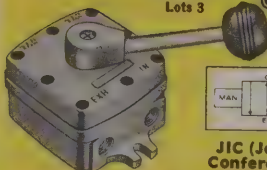
No. 6X367. Speedaire 3/8" Foot Valve. Retail \$59.40. Each \$53.46; lots 3.....\$50.49

HAND CONTROL AIR VALVE

\$27.29

Lots 3

Speedaire



JIC (Joint Industry Conference Symbols)

4-way, 3-position, rotary disc, hand control air valve to operate single or double acting cylinders. Forged bronze disc and cast iron surface are ground and lapped to provide leakproof seal. Air pressure from inlet port is confined beneath disc, making seal tighter as pressure increases, yet only requires 15 lbs. of force to move lever at 100 PSI line pressure. 2.55 average Cv., 0 to 150 PSI operating pressure. Handle comes disassembled and mounts in any of four positions, 90° apart to meet any operator or machine requirements.

3/8" NPT tapped ports can be easily reduced to 1/8 or 1/4" operation. 6 1/16 L x 4 3/4 W x 3 3/2" H. Speedaire brand. Shpg. wt. 1 1/2 lbs.

No. 6X366. Speedaire 3/8" Hand Valve. Retail \$32.10. Each \$28.89; lots 3.....\$27.29

(*) Coefficient of volume: The amount of water in GPM at standard conditions (60°F, specific gravity = 1) which will pass through the valve at full open with a 1 PSI pressure drop.

SPEEDAIRE PORT FLOW CONTROL



Speedaire

No. 6X368

\$3.15

Lots 3

Fits into exhaust port of valves or cylinders to control speed. Adjustable orifice of port flow control throttles cylinder or valve exhaust and develops back pressure that acts to reduce speed of stroke. Solid, single piece body and screw construction and full size adjustment locking nut hold selected speed setting. Adjusting screw is stainless steel; body and locking nut are black oxide treated steel. 0 to 250 PSI operating pressure. -65° to +300°F operating temperature. Comes in 1/4 and 3/8" NPT port sizes. Speedaire brand.

Port Size	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/4"	6X368	\$3.70	\$3.33	\$3.15	3 oz.
3/8"	6X369	4.30	3.87	3.66	3 oz.

SQUARE D®



B



C



AIR COMPRESSOR PRESSURE CONTROLS

Full line of air compressor controls range up to 250 PSI. Controls are 2-pole type and have positive quick make-and-break contact action. NEMA 1 size enclosure has 1/2" conduit openings and ample wiring space, blue gray finish. Lower female 1/4" NPT connection. UL listed. Individually cartoned. Square D brand.

Fig.	PSI Range	Square D No.	Adjustable Diff. PSI Min. Max.	Factory Set PSI On Off	RATING IN HP				Stock No.	Retail	Each	Lots 4	Lots 6	Shpg. Wt.
					Single Phase AC	Single Phase AC	Poly-phase AC	Poly-phase AC						
A	40-100	HHG 2	17 34	80 100	1	1	1	1	4X675	\$15.40	\$6.52	—	\$5.94	1
A	80-150	HHG 12	27 40	90 125	1	1	1	1	4X676	15.40	6.52	—	5.94	1
A	80-150	HHG 12 Form X	27 40	90 125	1	1	1	1	4X677†	20.20	8.52	—	7.76	1
3	60-200	GHG-2	18 40	145 175	2	3	3	5	4X678	31.40	13.24	\$12.06	—	2
3	60-200	GHG-2 Form X	18 40	145 175	2	3	3	5	4X679†	42.40	17.89	16.28	—	2
3	25-250	ASG-11 Form FX	18 45	145 175	2	3	3	5	4X680‡	61.00	25.84	23.52	—	5

Has unloader valve for easy motor starting. (†) Has 2-way unloader valve.

No's. 4X678, 4X679, 4X680 also rated 5 HP, 440-550 VAC, single or polyphase.

SEE WARRANTY INFORMATION ON PAGE 684

GENERAL-PURPOSE & PRODUCTION SPRAY GUNS



A
B
C

All Guns Are Quick-Breakaway Type, For Use With Paint Tank Except No. 22497

CONVERTIBLE SPRAY GUN

Easily Converted to Bleeder or Non-Bleeder

No. 22364 Lots 3 **\$24.33**

Speedaire

BLEEDER TYPE INTERNAL MIX

\$10.89 No. 22497 Lots 3

\$13.23 No. 22361 Lots 3

BLEEDER TYPE INTERNAL AND EXTERNAL MIX

\$15.04 No. 22362 Lots 3

NON-BLEEDER TYPE INTERNAL AND EXTERNAL MIX

\$16.23 No. 22363 Lots 3



E

BASIC SPRAY GUN TYPES



BLEEDER TYPE: For continuously running compressors. Air blows thru gun constantly — trigger controls only flow of material.



NON-BLEEDER TYPE: For regulated tank or air line systems. Trigger controls both paint and air supply — shuts off both when not painting.

A B C Bleeder Type, Gen'l-Purpose

For use with small, low volume compressors. Will handle all types of paint and lacquer. Adjustable spray pattern for versatile performance. No. 22362 comes with extra nozzle for external mix for fast-drying materials. One quart metal canister and screw type cover. Breakaway design of all except No. 22497 permits use with 3 or 7½ gallon paint tanks.

D Non-Bleeder Type, General-Purpose

For use with tank mounted compressors or pressure-controlled air lines. Will handle all types of paints and materials. Internal and external mix air caps. May be used with remote 3 or 7½ gallon paint tanks. Ideal for small service shops and light production work. One quart metal canister and screw type cover.

E Convertible Bleeder/Non-Bleeder

Instantly convertible to either bleeder or non-bleeder type. Control knob quickly changes to pressure or syphon feed. Internal and external mix air caps. Adjustable, accurate spray pattern, one quart metal canister with screw type cover. Can be used for home, shop and light production work with any type air source which will supply 2.5 to 6.0 CFM of free air at 30 to 50 PSI. May also be used with remote paint tanks.

F G Heavy Duty, Production Gun

Designed and built for day-in, day-out professional use. Non-bleeder type, syphon feed and external mix. Will handle all paints and materials. Fluid and pattern controls are precision made to provide full control, professional results. Perfectly balanced and light weight. No. 22366 comes with quick change clamp-tight cover and 1 quart, wide mouth metal canister. May also be used with remote paint tanks. No. 22365 comes without cup and cover for use in production or booths with remote paint tanks.

PRODUCTION SPRAY GUNS

HEAVY DUTY NON-BLEEDER TYPE

Quick-Change 1 Qt. Cup External Mix Nozzle

\$38.20 No. 22366 Lots 3



G



F

HEAVY DUTY NON-BLEEDER TYPE

For Use With Paint Tank

\$32.04 No. 22365 Lots 3

SPEEDAIRE SPRAY GUN SPECIFICATIONS & PRICES

Type Gun	Fig.	Type Feed	MPT	Type Mix	Free Air Required	PSI Range	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Bleeder Bleeder Bleeder	A	Pressure	¼"	Internal	0.5—3.0	15-50	22497	\$20.00	\$11.90	\$10.89	1½
	B	Pressure	¼"	Internal	0.7—4.0	15-50	22361	24.50	14.44	13.23	2
	C	Pressure or Syphon	¼"	Internal & External	2.0—5.0	25-50	22362	27.50	16.41	15.04	2
Non-Bleeder	D	Pressure or Syphon	¼"	Internal & External	2.0—5.0	25-50	22363	31.00	17.72	16.23	2
Convertible	E	Pressure or Syphon	¼"	Internal & External	2.5—6.0	30-50	22364	46.00	26.58	24.33	2½
Non-Bleeder	F	Syphon	¼"	External	5.0—12.0	40-85	22366	69.50	41.65	38.20	3
Non-Bleeder	G	Syphon	¼"	External	5.0—12.0	40-85	22365	59.00	34.97	32.04	2

HEAVY DUTY INDUSTRIAL SPRAY GUN



**HEAVY DUTY,
NON-BLEEDER TYPE
No. 22758 GUN ONLY**

\$81.13

Lots 3



Speedaire

**No. 22759 GUN
WITH CANISTER**

\$92.66

Lots 3

**Professional-Quality Gun For Production
Line Finishing, Automotive Refinishing,
Commercial Painting And Contracting**

Industrial spray gun for the best professional results on big or small jobs. Handles all types of paints and materials that can be used with syphon feed and external mix. Die cast aluminum body is epoxy-coated. Hardened steel needle and fluid tip. Exclusive air valve design, fully adjustable supersensitive pattern control and maximum trigger control. Built for long life—forged bronze head assembly, forged brass air cap and trigger are nickel-plated. Two-piece gun assembly for easy maintenance. 4 CFM to 11 CFM air capacity range, 40-85 PSI range. Standard 3/8" fluid inlet, 1/4" air outlet. Spun aluminum, one-quart canister with aluminum cover, standard 3/8" NPT connection. Large three-spoke canister locking yoke. Shpg. wt. without canister 1 lb.; Shpg. wt. with canister 3 lbs.

No. 22758. Spray Gun Without Canister, Retail \$149.00. Each \$88.53; lots 3.....\$81.13

No. 22759. Spray Gun With Canister, Retail \$170.00. Each \$101.11; lots 3.....\$92.66

3 & 7½ GAL. PRODUCTION PAINT TANKS



**Maintains
pressure setting for
professional
results**

**Complete With Pressure Regulator, Gauge, Safety
Valve and Bleeder Valve. 60 PSI Max. Pressure
Galvanized for Protection Against Rust**

\$42.23

3 Gallon,
Lots 3

Top Quality Speedaire tanks for production line painting, decorators, etc. Tank may be filled with paint or paint can may be placed in tank. 3 gal. tank accepts 1 gal. can, 7½ gal. tank accepts 5 gal. can.

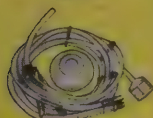
Heavy galvanized steel construction with cast iron lid and 4 or 6 clamp-on lugs. Convenient hook-type handle. Leakproof gaskets. Easy to fill and clean.

Used with internal or external mix spray guns. 60 PSI maximum working pressure. Complete with pressure regulator, gauge, safety valve and bleeder valve. ¾" MPT paint line connector, ¼" MPT air line connector.

Capacity	Stock No.	Retail	Each	Lots 3	Wt.
3 Gal.	22367	\$78.00	\$46.06	\$42.23	24
7½ Gal.	22368	115.00	68.54	62.87	43

\$117.72

**Complete Kit
Lots 3**



**LIMITED WARRANTY
6 months parts and labor limited warranty.
See Limited Warranty Policy in Index.**

ELECTRIC AIRLESS SPRAY KIT

A portable, self-contained paint sprayer for big and small jobs. Airless unit (no air compressor required) minimizes overspray, paint fogging and clean up. Operates from 115V, 60 Hz electrical outlet. Sprays up to 10¼ oz. per minute from 38 oz. polyethylene container. Can also be operated from larger container by using siphon tube assembly. Spray pattern adjustable from coarse to fine. Gun body of high density polyamide and fiberglass—a virtually indestructible material impervious to solvents. Pump has tungsten carbide cylinder and piston. 10 ft. 3-cord. cord set. Kit includes spray gun, 3 spray nozzles (8, 6 and 4 mm), flexible extension adapter with 5 mm nozzle, safety guard nozzle, viscosity cup, 5 ft. suction tube and extra valve assembly. Product of Spray Tech Corp. (ST280). Shpg. wt. 4 lbs.

No. 22702. Electric Airless Spray Gun. Retail \$138.50. Each \$124.65; lots 3.....\$117.72

All No. 22702 Spray Tech airless spray guns we have shipped after Dec. 1, 1975, include a safety nozzle guard at no extra charge. Anyone with a No. 22702 or 22702A gun (Spray Tech Model ST300 or ST280) can obtain a free safety nozzle guard from any Grainger Sales Office/Warehouse on request.

**Specify: No. 1R237 for No. 22702 (ST300)
No. 1R238 for No. 22702A (ST280)**

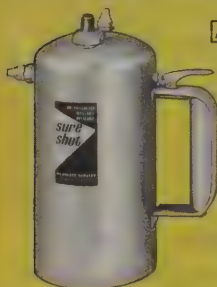


NOTICE

RECHARGEABLE 6 OZ. & 1 QT. PRESSURE SPRAYERS

Milwaukee Sprayer Sure-Shot Brand. Refillable, Reuseable. Tested up to 200 PSI

- 6 oz. and 1 qt. refillable and reuseable pressure sprayers for using materials in economical bulk quantities.
- Sprays light lubricants, belt dressings, plastic coatings, solvents, adhesives, pesticides and many other materials.
- To use, just fill with material and charge from any source of compressed air.



A
\$14.97
 No. 2Z857, Lots 3
 Enamel Finish
 Steel Construction

\$21.96
 No. 2Z858, Lots 3
 Chrome Finish
 Brass Construction



\$7.87
 Lots 3, No. 2Z859
 Chrome-Plated
 Brass Construction

LIMITED WARRANTY

90 day parts and labor limited warranty
 See Limited Warranty Policy in Index.

Versatile 6 oz. and 1 qt. pressure sprayers for using spray materials in economical bulk quantities. Features many different applications for industrial, commercial, farm and home.

Refillable and reuseable; filler cap is equipped with tire valve stem for use with standard air compressor tire chuck or tire pump. To operate, fill canister with material and charge to at least 80 PSI from any source of compressed air. Controlled spray action for uniform applications provides better coverage than material mixed with aerosol propellants. Air pressure remains effective after canister is charged until last of material is sprayed.

CONSTRUCTION FEATURES: Nos. 2Z859 (6 oz.) and 2Z858 (1 qt.) are chrome-plated brass for extra resistance to corrosives. No. 2Z857 (not shown) has steel canister, finished with red enamel. Both 1 qt. models have two interchangeable spray jets: general purpose mist and pin stream. 6 oz. model has all-purpose mist spray that converts to pin-stream with removal of jet spiral nozzle.

Sprayer shells are all metal, tested and rated for use with up to 200 PSI. All three models feature brass valves and nozzles, with viton seals. Entire valve and nozzle mechanism disassembles for cleaning. Easy-to-handle, spring-loaded trigger for spraying hour after hour. Completely portable—no trailing hoses or wires.

A 1 Qt. Pressure Sprayer, No. 2Z858. Chrome-plated, brass shell construction for use with water base, oil base and many other solutions requiring corrosion-resistant materials. 6 $\frac{1}{4}$ x 9". Mfr's. No. 2000-A. Shpg. wt. 2 $\frac{3}{4}$ lbs.

No. 2Z858. Ret. \$28.90. Each \$23.12; lots 3 \$21.96
1 Qt. Pressure Sprayer, No. 2Z857. (Not shown.) Like (A) above, except with steel canister shell, red enamel finish for use with oil base and non-corrosive materials only. 6 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 9". Manufacturer's No. 1000-A. Shpg. wt. 2 lbs.

No. 2Z857. Ret. \$19.70. Each \$15.76; lots 3 \$14.97

B 6 oz. Pressure Sprayer, No. 2Z859. Compact, chrome-plated brass shell construction for water base, oil base and other types of solutions requiring corrosion-resistant materials. 6 $\frac{1}{4}$ x 2 $\frac{1}{4}$ x 3". Mfrs. No. 4000-C. Shpg. wt. $\frac{3}{4}$ lb.

No. 2Z859. Retail \$10.35. Each \$8.28; lots 3 \$7.87

AIR-DRIVEN SAND BLASTING KITS

1 Qt. Canister & 3 Gal. Hopper Types. For Cleaning, Etching Bricks, Stone, Glass, Metal, Etc.



Gun & Hopper
\$40.30
 Lots 3

Speedaire
 Gun & Canister
\$27.07
 Lots 3



Versatile Speedaire sand blasting kits for cleaning and removing rust, scale, paint and dirt from metal, other surfaces. Use with sand, abrasive powder, water and other liquids for high pressure cleaning. For etching glass and stone, cleaning bricks; use with detergents on trucks, farm vehicles, siding, etc. No. 2Z631 bleeder type gun has one-quart capacity canister—can be used with 1/3 to 1 HP compressor at 40 PSI. No. 2Z632 non-bleeder gun with hopper unit holds 55 lbs. or 3 gal.—for 1 HP or larger compressor, up to 100 PSI. Ceramic nozzles for longer life. For operator safety, use face mask and respirator. See index under Safety Items.

Type	Cap.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Canister	1 qt.	2Z631	\$47.50	\$28.51	\$27.07	2
Hopper	3 gal.	2Z632	71.00	42.40	40.30	7 $\frac{1}{2}$

MODIFIED MOTORS AVAILABLE FOR OEM PRODUCTION USE

Modified versions of stock Dayton and Westinghouse motors are available to quantity users on special order, with deliveries scheduled to meet production needs. Your Grainger salesman can advise availability and quote prices on your special motor needs.

TRADESMAN & TRADESMAN DELUXE AIR HAMMERS

Medium Duty Hammer Delivers 3400 Blows/Min.; Heavy Duty Model, 1800 Powerful Blows/Minute



TRADESMAN
\$37.87

Dayton



DELUXE
\$102.88

Widely used for weld scaling, shearing, driving and performing other operations in industrial fabricating shops. Also have many uses in auto-truck & trailer-bus service garages, salvage operations, etc. Medium duty hammer delivers 3400 blows per minute; heavy duty model, 1800 powerful blows per minute. Both models use standard .401" Parker taper shank accessories, oper-

ate at 90 PSI and consume approximately 4 CFM. Have comfortable offset handle and full teasing throttle trigger for accurate speed and power control. Heavy duty hammer combines teasing throttle trigger with exclusive throttle valve for precise control and long service life. Furnished with quick-change retaining springs. Dayton brand.

Type	Blows Per Min.	Air Inlet	Air Motor Pressure Required	Air Usage	Overall Length	Net Wt.	Stock No.	Retail	Each	Shpg. Wt.
Tradesman	3400	1/4"	90 PSI	4 CFM	6 3/4"	3 1/4	22486	\$55.00	\$37.87	3 1/2
Deluxe	1800	1/4"	90 PSI	4 CFM	7 3/4"	3	22487	142.50	102.88	3 1/2

Dayton CUTTING CHISELS FOR AIR HAMMERS



Quality cutting chisels for a wide variety of applications. For Dayton and other air hammers that require .401" diameter shank tools. Chisels are made from hardened tool steel and may be resharpened several times. Figs. 8, 9 & 10 are designed for cutting electric motors, coils, wire, etc. Average length 7", except fig. 14 (No. 22887) which is 18". Shpg. wt. 8 oz. Dayton brand.

Description	Stock No.	Retail	Each	Lots 5 Asst'd.
Flat Chisel	22121	\$4.55	\$3.40	\$3.02
Scraping Chisel	22122	5.85	4.40	3.91
Ripping Chisel	22124	6.85	5.15	4.57
Cut-Off Tool	22126	5.85	4.40	3.91
Muffler Splitter	22120	7.55	5.65	5.02
K. O. Punch	22123	4.55	3.40	3.02
1/2" Punch Blank	22125	3.70	2.78	2.47

Fig.	Description	Stock No.	Retail	Each	Lots 5 Asst'd.
8	1 1/2" W. Sm. Notch	22178	\$6.20	\$4.65	\$4.13
9	3/4" W. Lg. Notch	22179	6.20	4.65	4.13
10	Five Notch	22180	6.55	4.90	4.36
11	Rivet Cutter	22885	4.50	3.39	3.02
12	V-Chisel	22886	5.85	4.40	3.92
13	Claw Ripper	22884	6.85	5.15	4.58
14	18" Flat Chisel	22887	14.20	10.67	9.78

SAFETY RETAINER FOR AIR HAMMER TOOLS



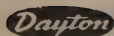
\$18.29

Quick change safety retainer for use with cutting chisels, etc., on No. 22486 & 22487 air hammers above only. For automotive, manufacturing, welding, and construction applications. Safe, easy way to use a chisel retainer with air hammers. Quick connect and disconnect makes it easy to change chisel bits without the use of troublesome retainers. Made from hardened steel. Measures 1 3/4" diam. 2 1/2" long. Shpg. wt. 3/4 lb. Dayton brand.

No. 22883. Retail \$24.40. Each.....**\$18.29**

Quantity Prices Are Available to Buyers on Most Items in this MotorBook
Your Grainger Salesman Will Gladly Quote You on Request

SEE WARRANTY INFORMATION ON PAGE 684



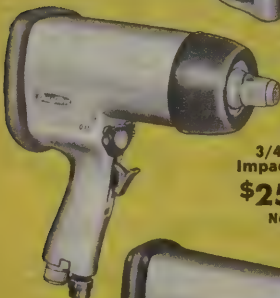
TRADESMAN AIR-DRIVEN IMPACT WRENCHES

Dependable and Job-Proven on Production Assembly Lines, Other Continuous Duty Jobs

1" Drive Impact Wrench

\$327.57

No. 22856



3/4" Drive Impact Wrench

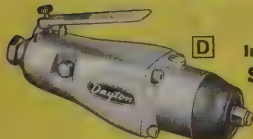
\$252.07

No. 22855

1/2" Drive Impact Wrench

\$99.07

No. 22485



3/8" Drive Impact Wrench

\$104.12

No. 22484

3/8" Drive Offset Handle Impact Wrench

\$107.46

No. 22854



A 1" Drive Air Impact Wrench, No. 22856. Powerful 1" square drive air impact wrench for industrial, commercial, agricultural and commercial applications. Designed for heavy duty operation and long life under the most demanding conditions. Rugged clutch mechanism delivers up to 1100 ft./lbs. torque at 90 PSI. 2500 RPM free speed with 1140 impacts per minute. 16-18 CFM average air consumption. For general assembly, steel fabrication and maintenance work. 1 1/4" capacity bolt size. 1" square drive spindle with thru-hole for socket retaining pin. Overall length 15 3/4". Shpg. wt. 29 lbs.

No. 22856. 1" Drive Air Impact Wrench. Retail \$654.00. Each **\$327.57**

B 3/4" Drive Air Impact Wrench, No. 22855.

Designed for heavy duty industrial, automotive, commercial and farm use. For general maintenance and assembly, steel fabrication, die build-up/tear-down, fleet work, etc. Delivers 1100 impacts per minute; 50-600 ft./lbs. torque at 90 PSI. 10 CFM average air consumption. 5750 RPM free speed. 3/4" bolt capacity; 1/4" NPT air inlet; 3/8" minimum hose size.

1-pc. housing for accurate alignment of all components. Balanced design and weight distribution for easy handling, reduced operator fatigue. Positive-action reverse valve. Built-in power regulator for adjusting torque output to suit the job. Rubber guards protect nose and housing. Thru-hole shank for socket retainer pin for positive retention of sockets. Overall length 9 1/4". Shpg. wt. 11 lbs.

No. 22855. 3/4" Drive Air Impact Wrench. Retail \$360.00. Each **\$252.07**

C 1/2" Drive Air Impact Wrench, No. 22485

Lightweight and compact yet powerful impact wrench for driving or removing nuts, bolts, or screws on production lines, garages and assembly work. Power regulator controls speed and torque from 20 to 200 ft./lbs. Finger-tip reverse valve. Precision machined and balanced air motor operates at 90 PSI; 9000 RPM free speed with 1300 impacts per minute. Uses 4 CFM average air consumption. Cast aluminum housing; all ball bearing construction for long service life. Power adjustment control lets operator use precise control for driving nuts, bolts or screws to exacting torque. 5/8" bolt capacity. 1/4" NPT air inlet. Quick-change ring socket retainer. Overall length 6 1/2". Shpg. wt. 6 lbs.

No. 22485. 1/2" Drive Air Impact Wrench. Retail \$140.00. Each **\$99.07**

D 3/8" Drive Air Impact Wrench, No. 22484.

Convenient hand-lever operation for automotive, manufacturing, maintenance applications. Suggested uses: general assembly, transmission tear-down, small engine repair, light tapping and reaming, wood augers, etc. Reversible; delivers 3000 impacts per minute; 0-80 ft./lbs torque at 90 PSI. 3 CFM average air consumption. 15000 RPM free speed. High torque build-up and fast run-down. Built-in power regulator for convenient torque output adjustment. Rubber nose protector prevents damage to housing when working in close quarters. Quick-change ring-socket retainer. Overall length 5 3/4". Shpg. wt. 2 lbs.

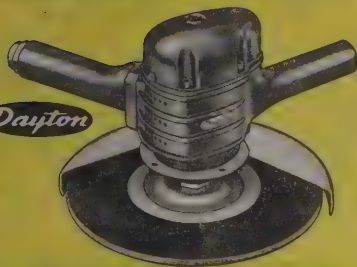
No. 22484. 3/8" Drive Air Impact Wrench. Retail \$153.50. Each **\$104.12**

E 3/8" Drive Pistol-Grip Air Impact Wrench No. 22854. Same specifications as No. 22484 (D) above only with offset pistol-grip. Overall length 5 3/4". Shpg. wt. 2 lbs.

No. 22854. 3/8" Drive Offset Handle Air Impact Wrench. Retail \$154.00. Each **\$107.46**

PRODUCTION-DUTY VERTICAL AIR GRINDER

Powerful Air Motor Operates Disc at Full 6000 RPM, Removes Material Fast



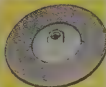
Finishing large steel casting using Dayton vertical air grinder with 9" depressed grinding wheel.

\$270.40
For continuous service encountered in all types of industrial grinding and finishing work. Use with cup and grinding wheels (see index). Spring-loaded teasing throttle controls disc speed, shuts tool off when released.

Floating rotor protects air motor from axial thrust loads, eliminates shim and bearing adjustments. Meets Compressed Air and Gas Institute (CAGI) specs. Consumes avg. 28 CFM at free speed. Air inlet 1/2". Ht. 7". Wt. 7 1/2 lbs. net. 8 lbs. shpg. 9" depressed wheel guard included. No. 2Z492. Retail \$378.00. Each.....**\$270.40**

DEPRESSED GRINDING WHEELS

or above grinder and similar makes with 5/8"-11 thread. Change wheels fast—no adapters or tools needed. Metal wheels are alum. oxide; masonry wheel, silicone carbide. Wt. 1 to 2 lbs. Dayton.



Type	Dia.	Stock No.	Retail	Each	Lots 5
Metal	7"	4X889	\$5.83	\$4.66	\$3.79
Masonry	7"	4X890	5.93	4.74	3.85
Metal	9"	5X587	7.90	6.32	5.14

CUP GRINDING WHEELS

Use with above grinder and other makes with 5/8"-11 thread. Remove metal or masonry fast, give long life. Metal wheels are alum. oxide; masonry wheel, silicone carbide. Wt. 2 1/2 to 4 1/2 lbs. Dayton brand.



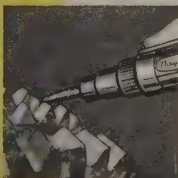
Type	Dia.	Stock No.	Retail	Each	Lots 5
Metal	5"	4X891	\$10.30	\$8.24	\$6.70
Masonry	5"	4X892	10.27	8.22	6.68
Metal	6"	5X588	12.03	9.62	7.82



Dayton

TRADESMAN AIR DIE GRINDER

Precision Finger-Tip Control from 15,000 to 35,000 RPM



Widely used in foundries and metal fabricating operations by tool and die makers, pattern makers and other skilled craftsmen for die grinding and deburring. Compact, lightweight tool (only 5" long 18 oz.) reaches hard-to-get-at work easily. Has powerful 1/2 HP, 3-blade motor that uses 15 CFM at 90 PSI. Precision Jacobs collet chuck. All ball bearings. Teasing throttle lever permits exacting speed control. Meets US Dept. of Labor sound level requirements. Uses 1 1/4" mounted point or organic wheels, carbide burrs, cutters, etc., with 1/4" shank and 1/4" air inlet. Dayton brand. Shpg. wt. 1 lb.

Carbide burr accessory kit—See Index under Burrs, Grinding

No. 2Z491. Retail \$121.00. Each.....**\$95.30**



\$57.96

Dayton

TRADESMAN 1/4" AIR DRILL

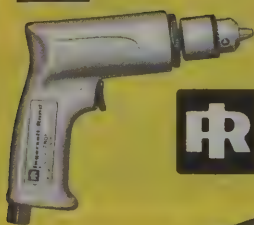
For Continuous Assembly & Fabrication Work

Built for heavy duty service in aircraft, automotive, appliance and other types of assembly and fabrication work. Also used in automotive garages, body shops and as a direct stall-type screwdriver. Lightweight, balanced design eliminates operator fatigue. Powerful 4-blade air motor consumes less than 10 CFM at 90 PSI. Operates at 2800 RPM free speed. Meets US Dept. of Labor sound level requirements. Standard equipment includes precision 1/4" Jacobs chuck and key. Air inlet 1/4". Overall length 7 1/4". Net wt. 2 1/2 lbs. Dayton brand. Shpg. wt. 3 lbs. No. 2Z488. Retail \$69.00. Each.....**\$57.96**

AIR-DRIVEN POWER DRILL AND SANDER

Precision Ingersoll-Rand Tools Designed for Automotive Applications

NEW



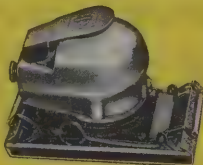
3/8" AIR DRILL

\$62.96



**ORBITAL
AIR SANDER**

\$71.96



3/8" HEAVY DUTY AIR DRILL

Compact, Variable Speed Control

Graduated throttle provides variable speed control. Heavy duty housing easily absorbs punishment of daily shop use. Lightweight, compact, fits hand comfortably. Bottom handle exhaust with built-in muffler keeps work piece clean and operating quietly. 3/8" chuck capacity. 2100 RPM no-load speed. Uses 5 CFM of air at 90 PSI with 3/8" recommended hose size. 1/4" air inlet. Overall length 7 1/4". Ingersoll-Rand brand (No. 7801). Shpg. wt. 2 1/2 lbs.

No. 2Z998. Retail \$69.95. Each.....**\$62.96**

ORBITAL AIR SANDER

Delivers 8000 Orbits Per Minute

Orbital air sander has larger capacity bearings than any other tool on the market, for longer trouble-free operation. Sanding pad measures 3 3/8 x 9". 3/8" recommended hose size, 1/4" air inlet. Uses 16 CFM at 90 PSI. Net wt. 3 1/4 lbs. (G0900). Shpg. wt. 4 lbs.

No. 2Z753. Retail \$79.95. Each.....**\$71.96**

1/2" DRIVE REVERSIBLE AIR IMPACT WRENCH

Designed for Automotive and Light Industrial Use. Delivers 1300 Impacts/Minute

1/2" drive reversible impact wrench for nut & bolt running, driving lag screws, die build-up/tear-down, screw extracting, reaming, tapping, stud driving and wood boring. Delivers 1300 impacts per minute. Power adjustment from 20 to 175 ft./lbs. can be achieved by trigger screw control. 9000 RPM free speed. 4 CFM air consumption at 90-100 PSI. 1/2" bolt capacity. 1/4" NPT air inlet. Overall length 6 3/4". High-speed run-down and fast torque build-up keeps total air consumption low. Shpg. wt. 4 lbs.

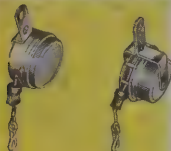
No. 2Z853. 1/2" Drive Air Impact Wrench. Retail \$119.50. Each.....**\$69.94**

Dayton

\$69.94



INDUSTRIAL TOOL BALANCERS



Dayton

\$10.92

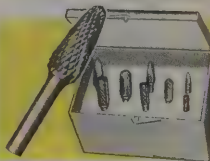
No. 2Z372
Lots 3

For use with air and electric tools on assembly lines. Tension adjustable by hand. Heat treated steel springs. 10 ft. 285 and 520 lb. test nylon cables. Oilite bearings, case hardened shafts. Aluminum drums are steel reinforced. Long life safety snaps. No-whip action. Use at any angle. Shpg. wt. 3/4 and 1 1/2 lbs.

No. 2Z372 No. 2Z373

For Tool Weighing:	Size Dia.	Depth	Stock No.	Retail	Each	Lots
2- 5 lbs.	3"	2"	2Z372	\$12.95	\$11.70	\$10.92
5-10 lbs.	3 1/2"	2 1/2"	2Z373	22.95	20.70	19.32

8-PC. CARBIDE BURR KIT



\$72.32

Lots 4

For precision cutting and deburring. Kit includes three shapes: cylindrical, cylindrical ball nose and round nose tree. Actual cutting area sizes are 1/4, 3/8 and 1/2" dia. x 5/8, 3/4 and 1" long. Burrs are medium flute with 1/4" shank—and have staggered teeth to provide 50% more cutting capacity than conventional burrs. Left hand spiral teeth are ground deeper than right hand teeth to eliminate forward pulling tendency. May be re-sharpened up to 20 times. Master brand Shpg. wt. 1 1/2 lb.

No. 2Z434. Carbide Burr Kit. Retail \$103.35. Each \$77.51; lots 4.....**\$72.32**

YOU GET FACTORY-FRESH MOTORS FROM GRAINGER'S NEARBY STOCKS

Every motor listed in this MotorBook is Factory Fresh, of latest design, and engineered for performance and long life. Fact label on carton has



full specifications and identification of motor. Buy electric motors from Grainger with complete confidence. See Index under Motors for big line

AUTOMOTIVE AIR-DRIVEN POWER TOOLS

Quality Ingersoll-Rand Impact Wrenches & Air Hammers for Automotive Applications

AIR IMPACT WRENCHES

3/8, 1/2 And 3/4" Drive Reversible Wrenches

No. 22746, 3/8" drive reversible impact wrench is a compact and maneuverable tool for hard-to-reach areas. Designed for transmission, air conditioning, heater, instrument panel, carburetor, radiator and body jobs. Convenient, built-in adjustable power regulator controls speed and torque from 15 to 45 ft./lbs. 1/4" air inlet is flush with side of tool, helps keep hose out of the way. Ingersoll-Rand brand (201).

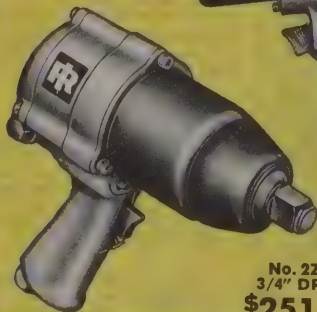
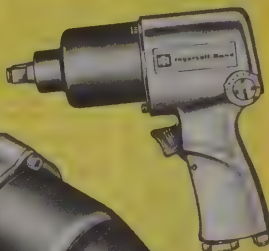
No. 22747, 1/2" drive reversible air impact wrench built for heavy duty use. Patented win hammer design delivers a powerful, balanced blow that develops up to 250 ft./lbs. of torque. Air regulator allows adjustments in power control, plus the ability to set forward and reverse independent of each other. Job-proven air motor has built-in oil mist lubricator. Built-in grease lube system for hammer mechanism, heavy duty motor housing. Ingersoll-Rand brand (231).

No. 22748, Super heavy duty reversible 3/4" drive air impact wrench will handle most nut and bolt work in truck and equipment maintenance. Built-in, adjustable power regulator has torque range of 350 to 575 ft./lbs. Makes 400 impacts per minute and has no/load speed of 4500 RPM. Built-in grease lube system, steel hammer case, rubber nose bumper, and positive forward and reverse control. Ingersoll-Rand brand (411).

No. 22746
3/8" DRIVE
\$89.96



No. 22747
1/2" DRIVE
\$89.96



No. 22748
3/4" DRIVE
\$251.96

AIR IMPACT WRENCH SPECIFICATIONS AND PRICES

Square Drive	Air Inlet	—Air Motor—		Overall Length	Net Wt.	Mfr. Model	Stock No.	Retail		Shpg. Wt.
		Pressure Required	Air Usage					Each	Each	
3/8"	1/4"	90 PSI	2 CFM	5 1/4"	2 1/4"	201	22746	\$99.95	\$89.96	3
1/2"	3/8"	90 PSI	4 CFM	6 1/4"	5 1/4"	231	22747	99.95	89.96	6 1/2
3/4"	3/4"	90 PSI	8 CFM	8 1/4"	11 1/4"	411	22748	279.95	251.96	12

AIR-DRIVEN HAMMER

Delivers 3000 Blows Per Minute

No. 22750, heavy duty air-driven hammer designed for high-volume front end, body, muffler and truck fleet repair shops. Delivers 3000 blows per minute. 1/4" air inlet. 90 PSI air motor pressure required with 3.0 CFM air usage. Tough piece steel alloy barrel, easily-controlled professional-touch trigger, simplified valving and porting. Standard Parker 0.401" diameter steel shank. Overall length 7 3/4". Ingersoll-Rand brand (MC121). Net wt. 3 3/8 lbs. Shpg. wt. 4 lbs.

No. 22750, Heavy Duty Air-Driven Hammer, Retail \$69.95. Each \$62.96

HEAVY DUTY
\$62.96



3/8 AND 1/2" SQ. DRIVE IMPACT SOCKET SETS



Made of hardened, drop-forged steel. 3/8" set has 9 sockets—1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4" sizes. 1/2" set has 11 sockets—1/2, 9/16, 5/8, 11/16, 3/4 and 13/16". For use with impact wrenches shown above. Dayton brand. Shpg. wt. 1 1/4 lbs.

	No. Sockets	Stock No.	Retail	Each	Lots 3
3/8"	6	4X002	\$15.38	\$10.77	\$9.69
1/2"	9	5X589	17.33	12.13	10.92

SOLID RAWHIDE MALLET



Solid rawhide mallets for use on steel, iron, brass or any soft metal. Won't mar, dent, scar or rebound. Made from choice grade, cured rawhide. Won't split, chip or splinter. Hickory handle. Garland brand. Shpg. wt. 8 and 14 oz.

Head Dia. x L	Handle Length	Mfrs. Model	Stock No.	Retail	Each	Lots 6
1 1/2 x 3"	8 1/2"	2	2X971	\$6.09	\$4.26	\$3.96
2 x 3 1/2"	10"	4	2X972	8.21	5.75	5.34

SEE WARRANTY INFORMATION ON PAGE 684

DEEP WELL SUBMERSIBLE PUMPS



1/3 to 3 HP. Pump Diameter 3 7/8" for 4" ID or Larger Dia. Wells. 1 1/4" NPT Port.
115 or 230V Models. Up to 1398 Gallons Per Hour. For Depths to Over 600 Ft.
Lightning Arrestor in Motor on 1/3 to 1 HP Models; in Control Box on Others

For home, farm, commercial, institutional and industrial applications. Meet the demand for higher water pressure systems; consistently deliver big volume at peak efficiency. Precision engineering and assembly, insure silent, dependable service and long life. Capacity at 40 PSI is used for water system pressure of 20 PSI-On, to 40 PSI-Off. Capacity at 60 PSI is used for water system of 40 PSI-On to 60 PSI-Off. Powered by reliable, water-cooled and lubricated Franklin motor. Automatic reset thermal protection, built-in lightning arrestor on models thru 1 HP; 1 1/2, 2 and 3 HP models have manual reset thermal protection, lightning arrestor in control box. Includes motor control box and motor with quick-connect 48" motor leads. Optional 3-wire cable and fittings package listed below. Pump diameter is 3 7/8".

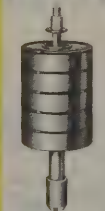
5 GPM SERIES—For medium-depth, low capacity home and farm wells.

10 GPM SERIES—For medium-depth, medium capacity wells in home and farm.

19 GPM SERIES—For medium-depth, high capacity wells, used for irrigation, motel, swimming pool and light industrial water systems.



1-Piece Discharge Housing and full-flow check valve with non-rotating poppet are cast iron. All models have 1 1/4" NPT female discharge port.



Unitized Precision-Molded Impeller & Diffuser Assembly of non-fusing, abrasion and corrosion-resistant Noryl® with Delrin® diffuser plate. Includes bronze sleeve bearing with sand slinger.



Stainless Steel Drive Shaft, Coupling and Pump Shell, precision machined for perfect alignment, balance and power transmission. Shell has polypropylene inlet screen.

Franklin Long-life Deep Well Submersible Motors, water-cooled and lubricated, 3-wire, capacitor-start. Capacitor located in control box above ground, for easy accessibility. Motors thru 1 HP are Franklin's new Super Stainless series with lightning arrestor built in.



Quick-Disconnect Motor Control Box features replaceable snap-in, snap-out cover with built-in components. Most service problems are solved by simply snapping out old cover, snapping in new one. Normally no need to pull pump.



CONTROLS AND FITTINGS PACKAGE FOR TEEL SUBMERSIBLE PUMPS

All necessary fittings for original installation of deep well submersible pumps. Package includes pressure switch, pressure gauge, air volume control, check valve tapped for air snifter (intake) valve, air snifter (intake) valve, bleeder orifice, 1 1/4" x 1" hex bushing and reducing tee

for bleeder orifice. Shpg. wt. 6 lbs.

For Pumps	Stock No.	Retail	Each	Lots 3
1/3 to 3/4 HP	1P763	\$48.83	\$39.31	\$38.33
1 to 3 HP	1P764	58.04	46.72	45.56

WATERPROOF 3-WIRE CABLE FOR SUBMERSIBLE PUMPS

3-conductor, 3/4" insulation. Shipped in nominal lengths of 500 ft., ±10%

MAXIMUM WIRE LENGTHS BY WIRE SIZE

Motor HP V	Control Box to Power						Pump to Control Box					
	14	12	10	8	6	4	14	12	10	8	6	4
1/3 115	25	40	65	105	165	260	110	165	260	—	—	—
1/2 115	20	30	50	80	125	200	80	130	195	310	—	—
1/2 230	75	120	195	310	490	775	315	490	775	1230	—	—
3/4 230	70	110	175	280	445	710	280	450	705	1120	1780	—
1 230	50	80	125	200	315	500	200	310	495	790	1260	—
1 1/2 230	50	75	120	190	305	485	190	300	480	765	1210	1930
2 230	45	75	115	185	295	465	185	290	465	740	1175	1865
3 230	—	55	85	135	210	340	—	210	335	535	850	1350

NEOPRENE INSULATION, 500 FT. REELS

Gauge	Stk. No.	Retail	Each	Lots 4	WL
14/3	3P566	\$166.55	\$108.25	\$ 99.93	59
12/3	3P567	208.25	135.79	125.34	79
10/3	3P568	299.90	194.29	179.34	99

PLASTIC INSULATION, 500 FT. REELS

Gauge	Stk. No.	Retail	Each	Lots 4	WL
14/3	3P596	119.75	77.84	71.85	34
12/3	3P597	166.90	108.49	100.14	56
10/3	3P598	242.50	157.63	145.50	69

FOR HOME, FARM AND INDUSTRIAL USE

5 GPM SERIES PUMPS FOR LOW CAPACITY WELLS

HP	Stage	Model	PSI	40 ft.			Gallons per Hour at Depth to Water			350 ft.			450 ft.			600 ft.		
				40 ft.	60 ft.	80 ft.	140 ft.	200 ft.	250 ft.	300 ft.	350 ft.	450 ft.	600 ft.	350 ft.	450 ft.	600 ft.		
1/3	11	3P591	40	409	385	360	271	126	—	—	—	—	—	—	—	—	—	
			60	351	325	294	176	—	—	—	—	—	—	—	—	—		
1/2	15	3P592	40	447	432	414	366	306	240	141	—	—	—	—	—	—	—	
			60	411	396	378	318	243	153	—	—	—	—	—	—	—		
3/4	21	3P593	40	477	468	459	426	390	354	318	276	151	—	—	—	—	—	
			60	456	445	435	399	360	321	279	228	—	—	—	—	—		

10 GPM SERIES PUMPS FOR AVERAGE CAPACITY WELLS

1/3	6	3P558	40	588	480	330	—	—	—	—	—	—	—	—	—	—	—	—	—
			60	240	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1/2	8	3P559 & 3P560	40	720	660	600	288	—	—	—	—	—	—	—	—	—	—	—	—
			60	594	516	402	—	—	—	—	—	—	—	—	—	—	—	—	—
3/4	12	3P561	40	828	798	768	660	534	366	—	—	—	—	—	—	—	—	—	—
			60	756	726	690	576	396	—	—	—	—	—	—	—	—	—	—	—
1	15	3P562	40	870	846	822	744	654	570	474	270	—	—	—	—	—	—	—	—
			60	810	792	762	672	582	468	300	—	—	—	—	—	—	—	—	—
1 1/2	20	3P563	40	900	888	870	816	762	714	660	600	426	—	—	—	—	—	—	—
			60	870	846	834	774	720	666	606	528	288	—	—	—	—	—	—	—
2	26	3P564	40	930	918	906	864	828	786	756	714	630	—	—	—	—	—	—	—
			60	900	888	876	834	792	756	714	678	582	—	—	—	—	—	—	—
3	34	3P565	40	924	924	924	888	852	840	816	792	732	642	—	—	—	—	—	—
			60	912	924	900	864	846	822	786	750	708	612	—	—	—	—	—	—

19 GPM SERIES PUMPS FOR HIGH CAPACITY WELLS

1	9	3P594	40	1272	1188	1104	768	—	—	—	—	—	—	—	—	—	—	—	—
			60	1074	984	870	210	—	—	—	—	—	—	—	—	—	—	—	—
1 1/2	12	3P595	40	1398	1344	1284	1110	894	582	—	—	—	—	—	—	—	—	—	—
			60	1266	1212	1152	948	624	—	—	—	—	—	—	—	—	—	—	—

DEEP WELL SUBMERSIBLE PUMP PRICES

Controls & Fittings Package & Cable Listed on Facing Page

Series	Motor HP	Single Phase Volts 60 Hz	Phaz Stages	Discharge NPT	Stock No.	Pump with motor & motor control box Retail	Each	Motor control box Lots 3	Shpg. Wt.
5 GPM SERIES	1/3	115	11	1 1/4"	3P591	\$318.95	\$191.37	\$181.80	35
	1/2	230	15	1 1/2"	3P592	361.74	217.04	206.19	38
	3/4	230	21	1 1/2"	3P593	449.36	269.62	256.44	44
10 GPM SERIES	1/3	115	6	1 1/4"	3P558	288.79	173.27	164.61	33
	1/2	115	8	1 1/4"	3P559	310.33	186.20	176.89	37
	1/2	230	8	1 1/4"	3P560	310.33	186.20	176.89	35
	3/4	230	12	1 1/4"	3P561	382.51	229.51	218.03	43
	1	230	15	1 1/4"	3P562	476.56	285.94	271.64	47
	1 1/2	230	20	1 1/4"	3P563	670.36	402.22	382.11	63
	2	230	26	1 1/4"	3P564	881.26	528.76	502.32	114
19 GPM	3	230	34	1 1/4"	3P565	1122.72	673.63	639.95	122
	1	230	9	1 1/4"	3P594	446.46	267.88	254.48	54
	1 1/2	230	12	1 1/4"	3P595	615.41	369.24	350.78	60

COMPARATIVE SUBMERSIBLE DEEP WELL PUMP REPLACEMENT DATA

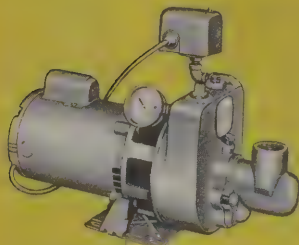
Teel pumps may be used as direct replacement for other brands in many cases. Where other brand does not match exactly, nearest rated GPM was used.

Teel Pump Series	Teel	Aermotor	Barnes	Gould	Jacuzzi	Meyers	Red Jacket	Sta-Rite	Tait	Webtrol	Teel
5 GPM	3P591	SA33HHS	—	UES03411	354A	SG32-3C	10 AC	BP10B1	33P34	515310	3P591
	3P592	SA50HH	—	UES05412	554A	SG52-5C	15 AC	BP13C2	5P34	525513	3P592
	3P593	SA75HH	—	UES07412	754A	SG72-7C	18 AC	BP18D2	7P34	525718	3P593
10 GPM	3P558	—	—	UEJ03411	354B7	SG32-3B	6 BC	AP6B1	33P37	101336	3P558
	3P559	SA50L	409T5189	UEJ05411	554B10	SG52-5B	9 BC	AP7B1	5P37	101958	3P559
	3P560	SA50L	409T5289	UEJ05412	554B10	SG52-5B	9 BC	AP7C2	5P37	102558	3P560
	3P561	SA75L	409T75B13	UEJ07412	754514	SG72-7B	12 BC	AP9D2	7P37	1025711	3P561
	3P562	SA100L	409T100B17	UEJ10412	154B18	SD102-10B	15 BC	AP14E2	10P37	102S1014	3P562
	3P563	SA150L	409T150B23	UEJ15412	1554B26	SE15C-21	19 BC	—	15P37	102S1520	3P563
	3P564	SA200L	409T200B31	UEJ20412	254B	SE20C-21	24 BC	—	—	102S2025	3P564
	3P565	SA300L	—	UEM30412	354B	SE30C-21	33 BC	—	—	102S3034	3P565
19 GPM	3P594	—	418T100	UEL10412	154C	SE10A-21	8 CC	—	10P315	—	3P594
	3P595	—	418T160	—	1554C	SE15A-21	11 CC	—	15P315	—	3P595

SEE WARRANTY INFORMATION ON PAGE 684

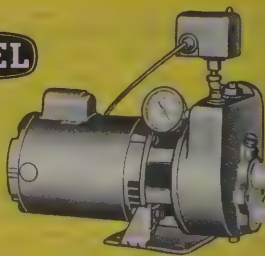
TEEL JET WATER WELL PUMPS

For Shallow or Deep Well Service, up to 90 Ft. Deep, up to 720 GPH at 20 PSI



**SHALLOW WELL, 1/3 HP
No. 3P547—Shallow Well Only**

TEEL



**CONVERTIBLE JET 1/2 to 1 HP
Shown set up for deep well service**

\$96.36

These jet pumps are designed and built for single-pipe shallow well or double-pipe deep well installations. Pumps are equipped with ejector, Square D pressure switch, pressure regulator, pressure gauge and foot valve. Impeller, ejector nozzle and ejector venturi are non-corrosive, heat and wear resistant Delrin plastic. Pump No. 3P547 is for shallow well use only and comes without foot valve; is driven by 1/3 HP, 115V, 60 Hz motor. Pumps No. 3P548, 3P549 and 3P550 have 1/2, 3/4 or 1 HP 115/230V, 60 Hz motors. All motors are Dayton capacitor-start having stainless steel shaft with ball bearing on shaft end, sleeve bearing on switch end. Green finish.

SHALLOW WELL INSTALLATION: Nos. 3P547, 3P548, 3P549, 3P550. Use for wells having maximum depth of 25 feet. Installs as a single pipe system with ejector package attached to pump head. Pump is to be used on 2" inside diameter or larger well points and drilled wells. 1½" suction, ¾" discharge lines.

DEEP WELL INSTALLATIONS: Nos. 3P548, 3P549, 3P550 only. Use for wells having depths of 20 to 90 feet. Installs as double-pipe system with ejector located in well. These pumps are designed for 4" diameter or larger drilled wells. System can be installed with either plastic or steel pipe; 1¼" suction, 1" pressure and ¾" discharge lines.

WATER TANKS AVAILABLE—SEE INDEX UNDER WATER TANKS

HP	Pump Stock No.	Gal.	Use With Tank Type	Stock No.
1/3	3P547	12	Horiz.	3P556†
1/2	3P548	30	Horiz.	3P557†
3/4	3P549	42	Vert.	3P272
1	3P550	42	Vert.	3P272

1/3 & 1/2 HP pumps are available as complete systems, with tank and air volume control. See Nos. 3P571 and 3P599 listed on facing page.

(†) Pump mounts on top of tank.

GPH At 20, 40, & 60 PSI, SHALLOW & DEEPWELL, from Pump to Water Table

HP	Type	PSI	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.	30 ft.	40 ft.	50 ft.	60 ft.	70 ft.	80 ft.	90 ft.
1/3	SW	20	720	660	580	500	370	—	—	—	—	—	—	—
	SW	40	320	270	230	170	120	—	—	—	—	—	—	—
1/2	SW	20	710	640	540	450	360	—	—	—	—	—	—	—
	SW	40	610	580	500	420	360	—	—	—	—	—	—	—
	SW	60	260	240	190	160	130	—	—	—	—	—	—	—
	DW	20	—	—	—	—	—	615	550	400	300	—	—	—
3/4	DW	40	—	—	—	—	—	385	330	240	160	—	—	—
	SW	20	480	440	400	350	250	—	—	—	—	—	—	—
	SW	40	470	430	390	330	240	—	—	—	—	—	—	—
	SW	60	330	310	290	260	230	—	—	—	—	—	—	—
1†	DW	20	—	—	—	—	—	430	390	350	300	250	200	130
	DW	40	—	—	—	—	—	320	270	230	190	140	90	—
	DW	60	—	—	—	—	—	210	160	90	—	—	—	—
	SW	20	720	670	600	500	400	—	—	—	—	—	—	—
1†	SW	40	720	670	600	500	400	—	—	—	—	—	—	—
	SW	60	670	630	590	500	400	—	—	—	—	—	—	—
	DW	20	—	—	—	—	—	700	680	650	600	520	440	360
	DW	40	—	—	—	—	—	700	680	650	600	520	440	360
1†	DW	60	—	—	—	—	—	620	540	460	380	300	220	150

TEEL JET PUMP PRICES COMPLETE WITH EJECTOR & FOOT VALVE

Motor HP	Type	Volts 60 Hz	H	—Overall— W L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/3*	SW	115	10½"	7" 20"	3P547	\$169.05	\$101.43	\$ 96.36	43
1/2	SW, DW	115/230	10½"	7 19	3P548	195.13	117.08	111.22	47
3/4	SW, DW	115/230	10½"	7 19	3P549	234.89	140.93	133.89	50½
1†	SW, DW	115/230	12"	7 20	3P550	371.24	222.74	211.61	68½

(*) Shipped without foot valve, for shallow well only; all others convertible type. (†) Two-stage pump.

TEEL SHALLOW & DEEP WELL WATER SYSTEMS

For Well Points, Cisterns and Dug Wells to 25 Feet Deep; Drilled Wells to 60 Ft. Deep

HIGH PRESSURE SHALLOW WELL SYSTEM

\$113.52

No. 1P850
Lots 3

TEEL



- For Year-around or Summer Homes, Trailers, Resort Cabins
- Precharged 2 Gal. Well-x-trol® Tank for Less Frequent Starts.
- Draw Capacity 1.0 Gallon @ 20-40 PSI

Compact and quiet operating shallow well pump is ideal where space is at a premium. Designed for use with driven well points, dug wells, drilled wells or cisterns to depths of 25 feet. Completely assembled, ready to install in year-round or summer homes, trailers, resort cabins, etc. May also be used as booster pump to augment low city water pressure. 1¼" inlet, ¾" discharge. Maximum suction lift 25 feet. Powered by a Dayton 1/3 HP, 115V, 60 Hz capacitor electric motor. Pressure switch set for 20-40 PSI, adjustable up to 40-60 PSI. 24 L x 11 W x 13¾" H.

PERFORMANCE—Gallons Per Hour at Depth to Water

PSI	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
20	410	370	325	270	210
40	370	350	310	260	200
60	210	190	170	160	140

SHALLOW WELL SYSTEM. No. 1P850. Shpg. wt. 51 lbs. Retail \$199.15. Each \$119.49; lots 3 **\$113.52**

PUMP AND MOTOR ONLY, less tank & fittings. No. 1P849. Shpg. wt. 44 lbs. Retail \$159.75. Each \$95.85; lots 3..... **\$91.06**

1/3 HP SHALLOW WELL SYSTEM WITH 12 GAL. TANK

TEEL

\$138.17

No. 3P571
Lots 3



Compact, shallow well water system—1/3 HP Teel jet pump with motor, mounted on a 12 gal. galvanized water tank. System is equipped with diaphragm air volume control, Square D pressure switch (preset at 20-40 PSI), and pressure gauge. Small size assures easy installation under sinks, in small cabinets, or other small areas where space is limited. Widely used in the summer home, cottage, or any place where water is available at a depth of 25 ft. or less. Delrin pump impeller is heat and wear resistant. Powered by dependable 1/3 HP capacitor Dayton motor, 115V, 60 Hz, with sleeve and ball bearings, and stainless steel shaft. Instructions included. 27 H x 12 W x 24" L. Shpg. wt. 74 lbs.

PERFORMANCE—GPH at Depth to Water

PSI	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
20	720	660	580	500	370
40	320	270	230	170	85

SHALLOW WELL SYSTEM No. 3P571. Retail \$242.40. Each \$145.44; lots 3 **\$138.17**

PUMP ONLY. Less tank, air volume control & fittings. No. 3P547. Retail \$169.05. Each \$101.43; lots 3..... **\$96.36**

1/2 HP CONVERTIBLE JET SYSTEM WITH 30 GAL. TANK

TEEL

\$165.50

No. 3P599
Lots 3



Complete convertible well water system—1/2 HP Teel jet pump with motor, mounted on a 30 gal. galvanized water tank. Includes air volume control, Square D pressure switch, pressure gauge, ejector and foot valve. Comes assembled, to save on-site time. Shallow well capacities based on use of 1" suction pipe. For 2" dia. and larger wells. Deep well capacities based on 1¼" suction, 1" discharge. Well must be 4" ID or larger. Dependable Dayton 1/2 HP motor, 115/230V, 60 Hz, with sealed-shielded ball bearings, stainless steel shaft. Pump has heat and wear-resistant Delrin impeller. ¾" discharge. Instruction manual included. 31 H, 30 L, 16" W overall. Shpg. wt. 100 lbs.

PERFORMANCE—GPH at Depth to Water

PSI	Shallow Well Installation					Deep Well Install.			
	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.	30 ft.	40 ft.	50 ft.	60 ft.
20	710	640	540	450	360	615	550	400	300
40	610	580	500	420	360	385	330	240	160
60	260	240	190	160	130	—	—	—	—

CONVERTIBLE WATER SYSTEM. No. 3P599. Retail \$290.35. Each \$174.21; lots 3 **\$165.50**

PUMP ONLY. Less tank, air vol. control and fittings. No. 3P548. Retail \$195.13. Each \$117.08; lots 3..... **\$111.22**

21 & 42 GALLON HYDRO-PNEUMATIC WATER TANKS

For Well Points, Cisterns, Dug Wells, Shallow & Deep Well Systems

TEEL

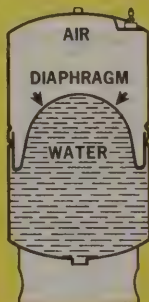


21 Gallon Capacity
\$58.31
Lots 3

LIMITED WARRANTY

5 years on Parts and Labor. See Limited Warranty Policy in Index

**Eliminates Waterlogging
No Air to Water Contact
Increases Pump Life
Pre-Pressurized Air Charge
Greater Water Drawdown
Heavy Gauge Steel Tank
Protective Glasslining**



Drawdown water is amount of water available for use between pumping cycles

Tank features heavy-gauge flexible diaphragm permanently bonded to the inside of tank shell. Diaphragm holds pre-pressurized air charge, separates air from water in the tank. Loss of air pressure through waterlogging is completely eliminated. Unique design increases tank life over conventional galvanized tanks. Also more drawdown water is available between pumping cycles enabling pump to work less, last longer.

14-gauge steel tank permits high pressure applications up to working pressures of 150 psi. Diaphragm is pre-charged to 40 psi at the factory, can easily be adjusted in the field to meet specifications on user's water pump. Tank has highly corrosion-resistant lining of porcelain enamel containing zirconium. DuPont Nordel® (ethylene-propylene-diene-polymer) diaphragm is .15625 inches thick; will not impart odor or taste to water. Diaphragm also has built-in safety barrier to prevent overflexing due to accidental loss of air or run-away pump condition. Air charge valve core can be easily replaced without disconnecting plumbing or disassembling tank. Air volume control floats or other devices normally used are not required. Water connections are accessible through two openings in tank skirt; will accept a wide variety of plumbing materials such as threaded plastic, solvent-weld plastic, copper or galvanized fittings, piping, etc. Mounting nut on center of tank head simplifies securing universal motor mount to tank. Exterior finish has two coats industrial grade enamel.

TANK PERFORMANCE—WATER DRAWN IN GALLONS

Drawdown Water in Gallons	No. 3P602						No. 3P603					
	Pressure Range in PSI						Pressure Range in PSI					
	10-30	20-40	30-50	40-60	70-90	80-100	10-30	20-40	30-50	40-60	70-90	80-100
	8.4	6.9	5.9	5.0	3.6	3.4	16.8	13.9	11.8	10.1	7.1	6.7

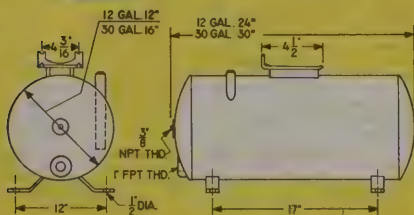
TANK DIMENSIONS AND PRICES

Capacity in Gallons	Tank Diameter	Overall Height	Water Connection	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
21	16"	31"	1" IPT	3P602	\$97.18	\$65.11	\$58.31	67 lbs.
42	20"	37 3/4"	1"	3P603	136.85	91.69	82.11	100

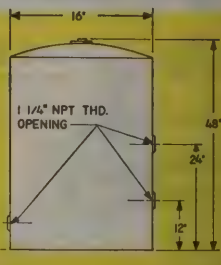
TANKS FOR WATER PUMPS—12, 30 & 42 GALLON

TEEL

\$39.71 12 Gallon Lots 3



12 AND 30 GAL. MODELS



42 GAL. MODELS

Galvanized water tanks for all types of domestic cold water systems. 12 and 30 gallon horizontal tanks have built-on saddle for mounting convertible jet pumps. All tanks meet 150 PSI test, and 75 PSI working pressure requirements.

Cap.	Type	Pump HP	Stock No.	Each	Lots 3	Wt.
12	Horiz.	1/8, 1/2	3P556	\$40.72	\$39.71	38
30	Horiz.	1/8, 1/2, 3/4	3P557	58.06	56.62	58
42	Vert.	1/2, 3/4, 1	3P272	59.60	55.02	77

CHEMICAL SOLUTION PUMP SYSTEM

Adds Precisely Metered Purifying Chemicals into Private Drinking Water Systems. 7½ Gallon Chemical Solution Tank. UL, CSA and National Sanitation Foundation (NSF) Approved

No. 1P886
\$135.38
 System

Automatically injects water purifying chemicals into drinking water obtained from private wells. System consists of 7½ gallon polyethylene chemical solution tank, stand and Mec-O-Matic's Barracuda feeder pump (Model 1000C) with 115VAC, 60 Hz motor. Adjustable feeder pump meters precise amount of chemical solution

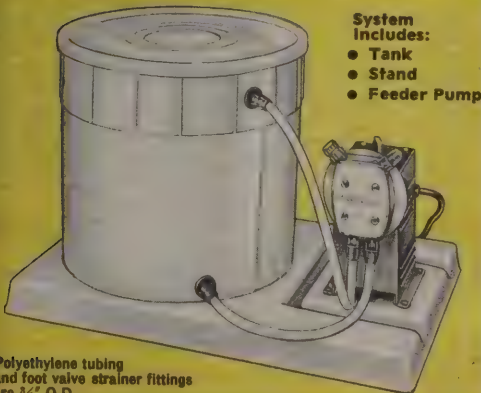
into holding tank of users water system. Pump delivers from 13.8 gallons per 24 hours at 0 PSI to 11.3 gallons per 24 hours at maximum water pressure of 75 PSI.

Chemical solution is supplied to feeder through porous polyethylene strainer clearing and changing of chemical bath without disconnecting tubing. When water system pressure exceeds 75 PSI, Relief-Release valve automatically diverts solution back to supply preventing ruptured lines or motor burnout.

Has manually operated Relief-Release valve in pump head for easy priming, clearing and changing of chemical bath without disconnecting tubing. When water system pressure exceeds 75 PSI, Relief-Release valve automatically diverts solution back to supply preventing ruptured lines or motor burnout.

Complete system easily installed. Injection point fittings, 20 ft. ¾" polyethylene tubing, 6 ft. 3-conductor cord set chlorine test kit and operating manual included. Overall dimensions are 22½ L x 15 H x 15" W. Mec-O-Matic brand (T.S.F. System). Shpg. wt. 16 lbs.

No. 1P886. Chemical Solution Pump System. Retail \$180.50. Each.....**\$135.38**



System includes:

- Tank
- Stand
- Feeder Pump

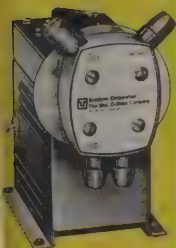
Polyethylene tubing and foot valve strainer fittings are ¾" O.D.

AUTOMATIC CHLORINATOR

Adjust. Feed—Up to 5.5 Gals. per 24 Hrs. @ 30 PSI
 Easily Installed. Assures Safe Water

\$72.78

Lots 3



Assures safe drinking water for the farm, home, summer cottage, restaurant, service station, etc. beyond city water mains. Automatically injects chlorine solution (ordinary laundry bleach, available everywhere) in minute, controlled amounts into pressure tank of well systems. The Barracuda features unique control mechanism that allows feed rate adjustment while unit is in operation.

Protects people and live stock against contaminated water. Controls taste and odor. Reduces rust problem. Metering pump with Teflon diaphragm has pressure Relief-Release valve pump head for easy priming, clearing, and changing of chemical bath without disconnecting tubing—diverts pressure back to supply preventing ruptured lines or motor burn-out. 5 HP, 115V, 60 Hz motor. 75 PSI max. When injected direct to motor terminals of water system, unit meters chlorine into system only when pump is running. Max. feed rate: 5.5 gals. per 24 hours @ 30 PSI, 6.2 gals @ 0 PSI. Mounts in any position. Easily installed and chlorine rate is easy to adjust. 6 ft. 3-wire cord set. Anti-fouling injection point fitting, foot valve strainer, 20 ft. ¾" OD tubing and instructions included. UL, CSA & NSF Approved. Mec-O-Matic brand, Barracuda model (475C). Shpg. wt. 16 lbs.

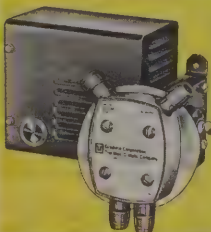
No. 1P679. Automatic Chlorinator. Ret. \$102.15. Each **\$76.61**; lots 3.....**\$72.78**

LIQUID SOLUTION FEEDER

Meters Liquid Chemicals for Water Treatment, Fertilizing. 1-to-26.5 Gal./24 Hrs. @ 30 PSI

\$112.93

Lots 3



For chlorinating private and small public swimming pools, cooling towers for air conditioners, hypochlorination and fluoridation of drinking water, feeding liquid fertilizer and insecticides to horticultural sprinkling systems, and in food processing plants.

Metering pump with Teflon diaphragm has pressure Relief-Release valve in pump head for easy priming, clearing, and changing of chemical bath without disconnecting tubing—diverts pressure back to supply preventing ruptured lines or motor burn-out. Powered by 1/30 HP, 115V, 60 Hz gear-motor. Calibrated, adjustable cam sets feed rate of 1 to 26.5 gal. per 24 hours at 30 PSI, 28 gals. at 0 PSI, 90 PSI max. Corrosion-resistant construction for long life. 8¾" W, 5¾" H, 5¼" D. 6 ft. 3-cond. cord. Anti-fouling injection point fitting, foot valve strainer, 20 ft. ¾" OD tubing and instructions included. UL, CSA & NSF Approved. Mec-O-Matic brand (H20J1). Shpg. wt. 8 lbs.

No. 1P666. Liquid Solution Feeder. Ret. \$158.50. Each **\$118.88**; lots 3.....**\$112.93**

REPLACEMENT VALVE KIT

Kit has one suction and one discharge valve, fits all pumps on this page. Viton seals. Mec-O-Matic brand (8800419). Shpg. wt. 2 oz.

No. 1R252. Replacement Valve Kit. Retail \$10.40. Each kit **\$7.80**; lots 3.....**\$6.63**

WATER SYSTEM ACCESSORIES

FOOT and CHECK VALVES

Bronze Construction. For Water, Petroleum



\$3.48 Positive-action, foot and check valves for use with hot or cold water, gasoline, petroleum oil, mild acids, and Lots 12 bases. Made of solid bronze. Foot valves have No. 6 perforated strainer. Valve poppets are also bronze and equipped with corrosion-resistant Monel poppet spring, with a tapered Buna N valve seat. Operating temperature up to 250°F. 125 PSI. Teel brand.

NPT Size	Fits into Pipe Size	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
(A) BRASS FOOT VALVES						
3/4"	1 1/4"	2X610	\$5.80	\$3.77	\$3.48	6 oz.
1x1 1/4" (†)	2	4X568	8.70	5.65	5.22	11 oz.
1 1/2"	3	2X746	13.55	8.81	8.13	1 1/2"
2"	3 1/2"	6X149	25.25	16.41	15.15	2 1/2"

(B) BRASS CHECK VALVES						
3/4"	1 1/4"	2X611	\$7.40	\$4.81	\$4.44	12 oz.
1"	2	2X612	9.40	6.11	5.64	1"
1 1/4"	2 1/2"	2X613	13.35	8.68	8.00	1 1/4"

(†) Dual threaded foot valve, 1" ID x 1 1/4" OD NPT.

AIR VOLUME CONTROL



\$3.19 Diaphragm type air volume control for water system pressure tank. No. 1P367 Lots 3

Control maintains required volume of air in tank to pressurize water system. Insufficient air causes frequent cycling of pump and inadequate water flow. As air is required, spring loaded diaphragm is drawn back by vacuum from tube connected to suction side of pump. When pumping action stops, air is charged into the tank. When sufficient air pressure is reached, orifice bushing in control prevents more air from entering tank. Die cast construction. Attaches to threaded port in tank. Use in systems with operating pressures of 20-40 PSI. Shpg. wt. 1 lb.

Tank Size Gallons	Back Connection	Stock No.	Retail	Each	Lots 3
42	1/2" MPT	1P367	\$5.90	\$3.42	\$3.19
70	3/4" FPT	1P368	8.80	5.10	4.75
17-70	3/8" MPT	1P527	5.60	3.25	3.02

REPAIR KITS FOR ABOVE CONTROLS

Consists of replacement diaphragm, washer, diaphragm spring, valve seat, coil spring, plastic ball & screws. Cartoned. Shpg. wt. 3 oz.

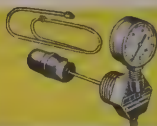
For Control	Stock No.	Retail	Each	Lots 3
No. 1P367	1P519	\$2.20	\$1.27	\$1.19
1P368 & 1P527	1P520	2.30	1.33	1.24

ORDER BY PHONE — YOU SAVE TIME



You can often save days by phoning in your orders. Your Grainger sales staff can generally ship same day if called before 3:00 P.M. They will cooperate in every way possible to get items to you when you need them. Give us a call—put Grainger service to work for you.

AIR VOLUME CONTROL KIT



\$6.62 Lots 6

Eliminates problem of waterlogged or air-bound water tanks. Maintains proper air volume inside tank. Float control operates valve. As air is absorbed into water, air volume inside tank is reduced. This causes float to rise and valve opens allowing air to be drawn by pump through connecting tubing and pump into tank. This operation continues until air pressure inside tank causes float to lower and close valve. Kit includes 2" diameter 0-100 PSI gauge, 30" copper tubing with 1/4" IPT connections. Tank connector has 1 1/4" NPT. Use on tanks having minimum 9" diameter. Penn brand (F90B-13). Shpg. wt. 1 1/2 lbs. No. 7P020. Retail \$15.43. Each **\$7.90**; lots 6, **\$6.62**

AIR VOLUME CONTROL, LESS GAUGE

Float operated air volume control as listed above but without pressure gauge. Shpg. wt. 1 1/4 lb.

No. 1P733 Retail \$11.78. Each **\$5.89**; lots 6, **\$4.71**

2 GPM FLOAT VALVE



\$2.10 3" dia. plastic float. Adjustable. Capacity, 2 GPM at

75 PSI. Stainless steel orifice, splash shield. 1/4" brass NPT fitting for 1/4" O.D. tubing line. Stern mounts in 7/16" hole. Wt. 6 oz. Robert brand.

No. 2X768. Retail \$2.95. Each **\$2.21**; lots 6, **\$2.10**

1/2, 3/4" MPT FLOAT VALVE



\$4.65 Positive-action. Machined brass. Adjustable activating lever and

stem with 1/4"-20 threads. Drip and chatter proof. Threaded outlet. Order float separately.

MPT Stem	Stock No.	Retail	Each	-Less Float- Lots 6	-Less Float- Lots 48	Shpg. Wt.
1/2" 10"	2X524	\$7.75	\$5.43	\$5.04	\$4.85	14 oz.
3/4" 12"	2X525	10.30	7.21	6.70	6.18	1 lb.

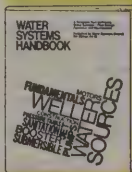


4 x 5" COPPER FLOAT

Use for operating float valves, etc 4" Diameter x 5", 1/4"-20 FPT. 8 oz. No. 2X526. Retail \$1.35. Each **\$1.11**

WATER SYSTEM HANDBOOK

For Pump Installers, Schools, Industry, Etc.



\$4.50 Essential data on selection, installation and maintenance of private water systems. Covers well construction and drilling, pump installation electric controls and motors pressure tanks and controls water supply and treatment Illustrated. 8 1/2 x 11". Published by the Water Systems Council Shpg. wt. 9 oz. No. 4X391. Each **\$4.50**

PLASTIC PIPE FITTINGS



For use with 1/2 to 1 1/4" plastic pipe. Gray PVC plastic material. Use with hose clamps NSF approved. Include adapters, coupling, elbow and tee fittings. Plastiline brand. Wt. 1 oz.

TYPE	Pipe Size	Stock No.	Retail	Each	Lots 10 Asst'd
ADAPTERS Threaded, Hex Hub	1/2	1P562	\$0.25	\$0.16	\$0.13
	3/4	1P563	.27	.17	.14
	1	1P564	.30	.19	.15
	1 1/4	1P565	.47	.29	.24
COUPLING	1/2	1P566	.25	.16	.13
	3/4	1P567	.27	.18	.14
	1	1P568	.32	.20	.16
	1 1/4	1P569	.45	.28	.23
ELBOW	1/2	1P570	.47	.34	.25
	3/4	1P571	.59	.43	.31
	1	1P572	.64	.47	.34
	1 1/4	1P573	.72	.53	.38
TEE	1/2	1P574	.49	.38	.26
	3/4	1P575	.57	.42	.30
	1	1P576	.72	.53	.38
	1 1/4	1P577	1.14	.83	.60

POLYETHYLENE PIPE

For Domestic Water Systems, Sump Pumps, Sprinkling Systems, Etc. 100 Ft. Lengths National Sanitation Foundation (NSF) Approved



\$5.80 1/2" Pipe Lots 5

Corrosion-proof, flexible polyethylene pipe for easy, inexpensive installation. Flexibility permits fast installation over uneven ground, without

le or drop joints. Turns can be made without glue or ell joints. Light weight. Recommended for all water pumps, including deep-well submersible to a depth of 14 ft. Maximum working temperature 73.4°F and pressure 80 PSI, except 1, which is 100 PSI. National Sanitation Foundation (NSF) approved.

OD	ID	Stock No.	100-Ft. Coil Retail	Each	Lots 5 Asst'd	Shpg. Wt.
.682	.622	3P486	\$9.20	\$6.14	\$5.80	5 1/4
.884	.824	3P315	11.90	7.94	7.50	7
1.119	1.049	3P316	17.30	11.54	10.90	11
1.472	1.380	3P317	30.05	20.04	18.93	19

WORM GEAR CLAMPS



High torque geared clamps have deep slotted screw construction. Nos. 1P415, 1P416, 5X793 have stainless steel bands and stainless steel screws, suitable for underground use. Nos. 12862 and 22060 have zinc plated carbon steel screws with stainless steel bands. Shpg. wt. 1 oz.

Clamp Size	Fits Nominal Diameter Tube	Stock No.	Each	Lots 50
1 1/2"	1 1/2" & 3/4"	1P415	\$0.55	\$0.47
1 3/4"	1 3/4" to 1 1/2"	1P416	.57	.48
2"	1 1/2" & 1 3/4"	5X793	.57	.48
3 1/4"	2 1/2" & 3"	12862	.56	.47
4 1/2"	3 3/4" & 4"	22060	.62	.53

TEEL PLASTIC PUMP TUBING

1/4" to 3/4" O.D. 100 and 1000 ft. Coils
FDA Approved Polyethylene and Vinyl



\$2.24 1/4" O.D., 100 Ft. Polyethylene Lots 4

Widely used for all pump jobs—recirculating, condensate removal, evaporators, instrument controls, pump vents, laboratory use, garden hose, etc. All tubing made from Food & Drug Admin. (FDA) approved materials. Vinyl tubing is recommended where greater tubing flexibility is required. Polyethylene tubing is recommended where greater temperature range is needed; 160°F. max. Temperature range of plastic tubing is -45 to 160°F. Teel brand.

TUBING SPECIFICATIONS

	Polyethylene	Vinyl
Color.....	Natural	Clear
PSI (max.) at 74°F.....	95	100
Low Temp. Flex.....	-102°F	-48°F
Odor.....	None	None
Toxicity.....	None	None

POLYETHYLENE TUBING, 100 FT. ROLLS

ID	OD	Max. PSI @74°F No.	Stock	Retail	Per Roll Each	Lots 4	Shpg. Wt.
5/32"	1/4"	95	IP517	\$3.20	\$2.40	\$2.24	2
9/32"	3/8"	95	IP518	4.50	3.38	3.15	2 1/2
3/8"	1/2"	95	IP639	7.45	4.84	4.47	5 1/4

1,000 FT. ROLLS POLYETHYLENE TUBING

ID	OD	Max. PSI @74°F No.	Stock	Retail	Per Roll Each	Lots 4	Shpg. Wt.
5/32"	1/4"	95	IP673	27.10	17.62	16.26	13
9/32"	3/8"	95	IP674	38.90	25.29	23.34	23

VINYL TUBING, 100 FT. ROLLS

ID	OD	Max. PSI @74°F No.	Stock	Retail	Per Roll Each	Lots 4	Shpg. Wt.
1/4"	3/8"	100	IP640	10.90	6.54	6.21	3 1/4
3/8"	1/2"	100	IP641	16.50	9.90	9.41	5 1/4
1/2"	3/4"	100	IP642	20.50	12.30	11.69	6 1/4
5/8"	3/4"	100	IP643	25.95	15.57	14.79	8 1/4

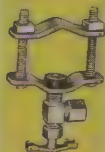
1/4" SADDLE VALVES

Self-Piercing or Conventional Types

No. 1X527

\$1.22

Lots 10



Used to provide water supply for humidifiers, refrigerators with automatic ice makers, and similar applications. Complete with fitting for 1/4" OD copper tubing and instructions. Tubing not included.

Self-Piercing Type easily installed on 3/8" to 1 1/2" OD copper tubing. Solid carbon steel piercing pin, sturdy turning handle. Not for iron pipe. Shpg. wt. 5 oz.

Conventional Type installed on 1/2" or 3/4" galvanized iron water pipe by drilling 3/16" hole in pipe, installing pilot tube and tightening. Kaddis brand. Shpg. wt. 4 oz.

Type	Stock No.	Retail	Each	Lots 10	Lots 12
Self-Piercing	5X867	\$2.28	\$1.48	—	\$1.37
Conventional	1X527	2.04	1.33	\$1.22	—

Nation-Wide Stocks—Fast Delivery

There are over 130 Grainger sales office—warehouses like the one that serves you. All carry large stocks of most items in this MotorBook. Extensive central back-up stocks assure prompt delivery.

COMBINATION VALVE FOR AIR & LIQUID PIPING SYSTEMS



- All bronze construction; for use with air or liquid
- Throttles like a globe valve, gives full flow like a gate valve

\$3.87

Each, Lots 10
1/4, 1/2 or 3/4" IPT

Bronze combination valve features the advantages of both a globe valve and gate valve. Throttles like a globe valve while providing the full flow of a gate valve. May be used with air or liquid. Positive shut-off every time with normal hand pressure; non-rising stem. Wrap-around relieved seat for easier shut-off action. All bronze construction; Buna N plunger and O-ring temperature range in continuous operation is from -40° F to 180° F in water and most oil applications. Both ends tapped same size IPT. See table below for performance data dimensions and pricing. Speedaire brand.

IPT Size	Max. Recommended —Operating Pressures—		Dimensions		Stock No.	Retail	Each	Lots 10	Shpg. Wt.
	Liquid*	Gas**	Height	Width					
1/4"	125 PSI	250 PSI	2 1/4"	1 3/4"	6X402	\$5.10	\$4.08	\$3.87	6 oz.
3/8"	125 PSI	250 PSI	2 3/4"	1 3/4"	6X403	5.10	4.08	3.87	6 oz.
1/2"	125 PSI	250 PSI	2 3/4"	2"	6X404	5.10	4.08	3.87	9 oz.
3/4"	125 PSI	250 PSI	3 1/4"	2 3/4"	6X405	6.30	5.04	4.78	11 oz.
1"	100 PSI	250 PSI	3 1/4"	2 3/4"	6X406	11.05	8.84	8.39	2
1 1/2"	80 PSI	250 PSI	5 1/4"	3 3/4"	6X407	22.10	17.68	16.80	4
2"	80 PSI	250 PSI	6 1/4"	4 3/8"	6X408	31.60	25.28	24.02	7

(*) Based on the expectation that complete pressure drop will occur across the valve. Such pressure drop requires extreme torque to open or close the valve.

(**) This table can be used for liquids if maximum pressure drop across the valve does not exceed 80 PSI.

BRASS BALL VALVES

Heavy Duty, 2-Piece Construction. Teflon Seats
For Use With Air, Water, Oil, Steam, Etc.

\$4.94

1/2" FPT. Lots 10



Heavy duty cast bronze ball valves are precision machined for maximum strength, durability and maintenance-free operation. Two-piece construction; cast bronze body, end cap and ball, Teflon seats and seals, corrosion resistant steel handle with 1/4" twin stop for positive control. Operates in either direction. Valves rated at 400 PSI for air, water, oil and other liquids, and 125 PSI for steam; -65°F to +400°F temperature range. Vacuum rating 29 in. mercury (Hg.) FPT both ends. Indiv. boxed. Speedaire brand.

Inlet & Outlet	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
1/4"	5X713	\$6.65	\$5.32	\$5.04	10 oz.
3/8"	5X714	6.65	5.32	5.04	12 oz.
1/2"	5X715	6.50	5.20	4.94	14 oz.
3/4"	5X716	8.65	6.92	6.57	1
1"	5X717	13.05	10.44	9.92	2
1 1/2"	6X217	21.30	17.04	16.19	1
1 1/2"	6X218	27.50	22.08	20.90	3
2"	6X219	36.70	29.36	27.89	5

25,000 Parts Stocked in Chicago

For Dayton, Teel and Speedaire products. Order from nearest Grainger Sales Office/Warehouse.

3/4" HIGH PRESSURE NOZZLE

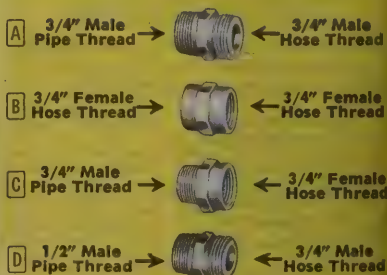


Handles water temperatures up to 180°F. Has all metal parts with machined brass internal components. Vinyl coated trigger-type handle controls flow rate, nozzle head twists to adjust spray pattern. 3/4" hose thread. Shpg. wt. 1 lb. Sherman brand (181).

No. 1P888. Retail \$7.38. Each **\$5.54**;
lots 5 **\$4.80**

HOSE-THREAD COUPLINGS

3/4" Size. All-Brass Construction. Sherman brand



A No. 4X072. Connects 3/4" internal NPT pump suction or discharge ports to hose.

B No. 1P724. Connects male end of water hose to wall hydrant or hose faucet.

C No. 1P723. For attaching No. 2X610 foot valve to water hose.

D No. 1P654. Connects female hose coupling to female pipe coupling.

Fig.	Stock No.	Retail	Each	Lots 10	Shpg. Wt.
A	4X072	\$1.96	\$1.47	\$1.27	3 oz.
B	1P724	1.96	1.47	1.27	1 oz.
C	1P723	1.96	1.47	1.27	1 oz.
D	1P654	1.96	1.47	1.27	1 oz.

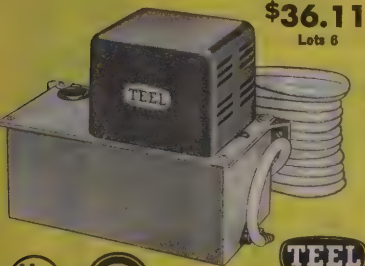


TEEL RECIRCULATING PUMPS

Built to handle liquid circulating jobs in evaporative coolers, fountains, displays, bilge pumping, coolants, etc.; dependably and economically. Pumps deliver up to 370 GPH. Precision molded of polystyrene (except motor) and highly resistant to corrosive effects of alkali, salt water, etc. See Index under Pumps, Recirculating.

UL & CSA LISTED TEEL CONDENSATE PUMP

8 to 75 GPH; Capable of 17 Ft. Lift Plus
300 Ft. of Horizontal Run



\$36.11

Lots 6

Delivers Up To
75 GPH

Removes condensate from central air conditioning systems and drains dehumidifiers. Designed for off-the-floor mounting onto furnace or air conditioner, or for wall mount (using lugs on pump). All plastic construction assures maximum corrosion resistance. Pump features big, one quart discharge per cycle, integral sump pan, control float for pump operation and safety float to cut-off low voltage thermostat of air conditioner in case of malfunction. Includes terminal board, BX bracket, micro switches, 90° outlet nipple and 20 ft. of 1/4" vinyl tubing. 1/35 HP, 115V, 60 Hz motor. 1/4" FPT outlet port. Pump dimensions 11 1/2" L, 8" H, 5 1/2" W. UL, CSA listed. Teel brand. Shpg. wt. 6 lbs.

No. 1P867. Retail \$55.55. Each \$38.89; lots 6, \$36.11

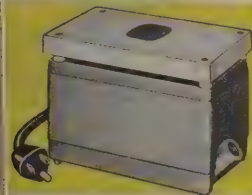
No. 1P867 PUMP PERFORMANCE

Ratings based on using 1/4" tubing and fitting provided with unit. Ratings at 1 ft. and 6 ft. heads are approximately doubled if pump discharge is connected with 3/4" straight fitting and tubing; 12 ft. and 15 ft. ratings are same.

Head	1 Ft.	6 Ft.	12 Ft.	15 Ft.	—Maximum— Head	PSI
Gal./Hr.	75	50	20	8	17 ft.	7.4

5 TO 65 GPH, TEEL CONDENSATE REMOVAL PUMP

For Central Air Conditioners, Dehumidifiers. 0 to 10 Ft. Lift, Automatic Switch



TEEL

\$23.92

Lots 6

Low 4 1/4" height fits drip pan of most central air conditioners. 3 3/8" W, 6 3/4" L. Use optional No. 1P665 Kit with sump pan when drip pan is not available. 115V, 60 Hz. Shpg. wt. 3 1/2 lbs.

No. 1P664. Pump, only. Retail \$36.80. Each \$25.76; lots 6...\$23.92

This Teel pump removes condensate from central air conditioners, drains dehumidifiers, removes minor seepage. Pumps 5 to 65 GPH, depending on head, run; up to 10 ft. head, 300 ft. horizontal run. Corrosion-resistant, all-plastic body, impeller. Built-in mercury float switch actuated by 3/4" water rise.

KIT FOR INSTALLING PUMP TO AIR CONDITIONING SYSTEM

Order with No. 1P664 Pump for air conditioning systems. Includes sump pan, check valve, tubing adapter, 20 ft. of 1/4" vinyl tubing. 2 lbs.

No. 1P665. Retail \$8.40. Each \$5.88; lots 6, \$5.46

35' FIBERGLAS PIPE WRAP



Insulates hot and cold water pipes and protects from freezing and sweating. Or may be used to insulate heat cable, heat tape, and water and oil lines. 35 ft. roll x 3" wide pure fiberglass is fire resistant—will not rot, mildew or corrode. Comes complete with 35 ft. x 2" aluminum-vinyl outer-wrap that keeps insulation tight. Shpg. wt. 10 ozs.

COVERAGE WITH ONE 35-FT. ROLL

Pipe Size	1 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cap Length	14.7'	11.9'	8.4'	7'	6.3'	4.9'

No. 1W709. Fiberglass Pipe Wrap, 35 ft. roll. Retail \$1.69. Each \$1.01; lots 12...\$93c

Replacement Parts Available from Stock

Large stock of over 25,000 replacement parts maintained in Chicago for most Dayton, Teel Speedaire products. Parts for other products sell are available on special order.

Specify model number of unit, and give full description of part needed. Send orders to West Grainger Sales Office/Warehouse.

THREAD & GASKET SEALANT



No. 4X227

93c

Lots 12

Speedaire



3/32" Diameter

Speedaire pure Teflon sealants are used on copper, brass, steel, aluminum, galvanized and plastic pipe threads. Prevents leakage on gas, liquid, air, and steam lines—also electrical conduit, bolts, etc. Tape-type is used for leak-proof sealing of joints and connections. Cord-type is used for gasketing between flanges or as packing material. Both withstand high-pressure steam, in excess of 10,000 PSI, 450 to 500°F temperatures, is non-toxic, chemically inert, and will not harden. Tape-type sealant is UL and Food and Drug Administration listed, also meets Military Specification T-27730.

Width	Length	Stock No.	Retail	Each	Lots 12
1/2"	260"	4X227	\$1.97	\$0.98	\$0.93
1/2"	520"	4X543	3.57	1.77	1.68
3/32 Dia.	240"	4X773	6.15	3.04	2.89

Save More—Order from Grainger

1/3 & 1/2 HP UPRIGHT SUMP PUMPS

For Heavy Duty Drainage Jobs in Industrial, Commercial and Residential Applications

QUALITY FEATURES

- Totally Enclosed, Fan Cooled Continuous Duty Dayton Motor with Automatic Thermal Protection
- Dependable Square D Float Switch
- Stainless Steel Shaft with Oilite Bearing
- Non-Clogging Impeller
- 1 1/4 & 2" IPT Discharge

Heavy duty Teel upright sump pumps are designed and built to handle big drainage jobs in homes, apartment buildings, offices, schools, factories, below ground vaults and elevator pits. All materials and components used in these pumps are selected to give long, trouble-free service under heavy use. Pumps have high efficiency non-clogging impeller with No. 416 stainless steel shaft and Oilite bearing. Pumps are driven by 1/3 or 1/2 HP Dayton 1725 RPM, 115V, 60 Hz, split phase, totally enclosed, fan cooled, continuous duty, 40°C ambient, class B insulation motors with double-shielded, pre-lubricated ball bearings at both ends. Motors have automatic reset thermal protection which automatically restarts motor after cool down. Dependable Square D switch is actuated by adjustable copper float mounted on brass rod. Maximum temperature of liquid being pumped is 130°F. All models have 8 ft. 3-wire cord set.

1/3 HP HEAVY DUTY CAST IRON PUMP

No. 3P544—Cast iron pump has cast iron volute with non-clogging cast bronze impeller and steel sediment screen. Upright column is zinc plated steel. 1 1/4" IPT discharge.

1/3 HP HEAVY DUTY BRONZE PUMP

No. 3P545—Bronze pump has bronze volute with non-clogging cast bronze impeller and brass sediment screen. Brass upright column. 1 1/4" IPT discharge.

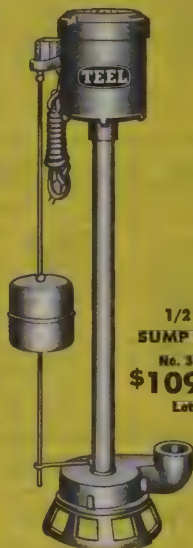
1/2 HP HEAVY DUTY CAST IRON PUMP

No. 3P546—Has cast iron volute, ejector-type impeller and sediment screen. Upright column is zinc plated steel. 2" IPT discharge.

TEEL

1/3 HP SUMP PUMPS

No. 3P544 No. 3P545
\$89.41 **\$115.59**
 Lots 3 Lots 3
 • Steel Column • Brass Column
 • Cast Iron Base • Bronze Base



1/2 HP SUMP PUMP

No. 3P546
\$109.22
 Lots 3

- Steel Column
- Cast Iron Base

PUMP PERFORMANCE

GALLONS OF WATER PER HOUR AT TOTAL HEAD IN FEET

HP	Stock No.	5 ft.	10 ft.	15 ft.	20 ft.	20 1/2 ft.
1/3	3P544	3000	2400	1470	140	Shut-off
1/3	3P545	3200	2600	1700	250	Shut-off
1/2	3P546	6200	4700	2200	Shut-off	

PUMP SPECIFICATIONS AND PRICES

HP	Pump Base	Type	Discharge IPT	Dimensions H. W.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/3	Cast Iron	Automatic	1 1/4"	35" 12"	3P544	\$141.92	\$94.38	\$89.41	34
1/3	Bronze	Automatic	1 1/4"	35 12	3P545	183.48	122.01	115.59	35
1/2	Cast Iron	Automatic	2	41 15	3P546	164.24	114.97	109.22	42

PUMPS AND PUMP COMPONENTS—LARGE LINE STOCKED

Pump men everywhere rely upon Grainger's for top-quality pump heads, built-up units, recirculating, sump, submersible and other pumps for immediate delivery. Line includes



most widely-used types for new equipment and replacement — also well supplies, pump motors, controls, etc. Know what we have; see index under Pumps and Pump Accessories.

AUTOMATIC 1/3 HP TEEL UPRIGHT SUMP PUMPS

Plastic, Cast Iron and Bronze Body Models. 1 1/4" IPT Discharge



NEW

PLASTIC BODY

\$39.10

No. 3P610, Lots 3

\$45.55

No. 3P612, Lots 3

CAST IRON & BRONZE

\$45.15

No. 3P585, Lots 3

\$61.62

No. 3P587, Lots 3

Dependable, automatic protection from unwanted water in basement, pit or other low area. Teel sump pumps are built of the most up-to-date materials, to provide long service at lowest possible cost. Ready to install; comes completely assembled except for float rod and float which are packed in carton with pump. 1/3 HP, NEMA 48 frame, 115V, 60 Hz Dayton sump pump motors, with or without automatic thermal protection. Snap-action float switch. 8 ft., 3-cond. cord set. Maximum temperature of liquid pumped should not exceed 130°F. For intermittent duty. Minimum sump diameter 12".

PERFORMANCE—GPH of Water at Total Feet of Head

Pump Body	5 Ft.	10 Ft.	15 Ft.	18 Ft.	20 Ft.
Plastic	3250	2550	1650	700	Shut-off
Cast Iron	3100	2550	1600	700	Shut-off
Bronze	3100	2550	1600	700	Shut-off



PLASTIC MODELS—Molded ABS plastic body, fiberglass reinforced acetal impeller. Lower bearing molded of poly (amideimide) material. Plastic float. Nos. 3P610 and 3P611 have carbon steel shaft, zinc plated steel column. No. 3P612 has stainless steel shaft, brass column for increased corrosion resistance.

CAST IRON MODELS—These have a cast iron body with molded ABS plastic bottom plate and

top bearing housing. Acetal impeller mounted on steel shaft. Zinc plated steel column. Porous bronze lower bearing. Plastic float.

BRONZE MODELS—These pumps have cast bronze bodies with ABS plastic bottom plate and top bearing housing. Acetal impeller mounted on steel shaft. Models come with brass column for added resistance to corrosion. Porous bronze lower bearing. Plastic float.

Material Body	Column	Thermal Protection	Volts 60 Hz	Discharge	Height Overall	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
Plastic	Steel	—	115	1 1/4" IPT	34"	3P610	\$58.80	\$41.16	\$39.10	16
Plastic	Steel	Yes	115	1 1/4" IPT	34"	3P611	60.02	42.01	39.91	16
Plastic	Brass	Yes	115	1 1/4" IPT	34"	3P612	68.49	47.94	45.55	16
Cast Iron	Steel	—	115	1 1/4" IPT	34"	3P585	67.90	47.53	45.15	20
Cast Iron	Steel	Yes	115	1 1/4" IPT	34"	3P586	70.27	49.19	46.73	20
Bronze	Brass	—	115	1 1/4" IPT	34"	3P587	92.66	64.86	61.62	19
Bronze	Brass	Yes	115	1 1/4" IPT	34"	3P588	95.19	66.63	63.30	19

1/3 HP SUBMERSIBLE TEEL AUTOMATIC PUMP

2850 GPH at 5 Ft. Head. Diaphragm Switch. Thermal Protected. 1 1/4" IPT Discharge

Sturdy, rugged Teel submersible sump pump, powered by 1/3 HP, 115V, 60 Hz shaded pole motor. Motor oil-filled. Also permanently lubricated sleeve bearings. Automatic reset thermal protection. Cast iron motor housing is coated to resist rust. Air-operated diaphragm switch built into motor casing; does not contact water. Rustproof acetal impeller for high pumping capacities. For home sumps, laundry drainage. Not for water or brine. Maximum temperature of liquid pumped, 130°F. Fac-set for 1 1/8" cut-in level, 6 1/2" cut-out, 5 3/8" differential. 1 1/4" IPT discharge. 8-ft., SJ 16/3 cord set. 12 H, 10 1/4" W.

WITH CAST IRON BODY

\$60.70

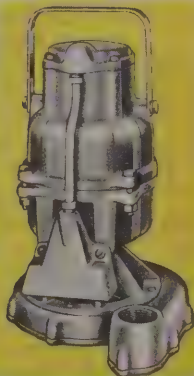
Lots 3

CAST IRON BODY MODEL—Pump body of dense, close-grain cast iron. Precision-molded acetal impeller. Bottom plate and top motor mount of high-impact, rustproof molded ABS plastic. Shpg. wt. 21 lbs.

BRONZE BODY MODEL—Pump body of cast bronze. Precision-molded acetal impeller. Bottom plate and top motor mount of high-impact, rustproof molded ABS plastic. Shpg. wt. 20 lbs.

PUMP PERFORMANCE AND PRICES

Body Material	GPH at Total Head in Feet					Stock No.	Retail	Each	Lots 3
	5'	10'	15'	18'	20'				
Cast Iron	2850	2350	1450	700	Shut-off	3P589	\$91.29	\$63.90	\$60.70
	2850	2350	1450	700	Shut-off	3P590	101.05	70.94	67.20



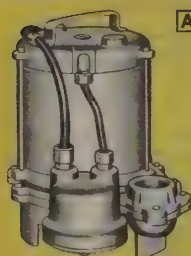
Grainger's In-Stock Supply Service Helps You Sell More and Net Larger Profits

SEE WARRANTY INFORMATION ON PAGE 684

475

1/3 & 1/2 HP SUBMERSIBLE SUMP PUMPS

Automatic and Manual-Start Models. 1725 RPM, 115V, 60 Hz Split Phase Motors



A

AUTOMATIC
1/3 HP No. 3P511
\$88.45

Lots 3



QUALITY FEATURES

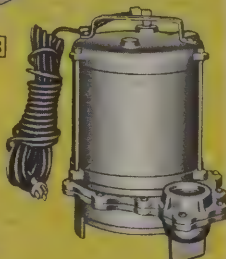
- Lifetime Lubricated Bearings
- Non-Clogging Impellers
- Bronze, Cast Iron and ABS Plastic Bases
- 1¼ & 1½" IPT Discharge

MANUAL
1/3 HP No. 3P512
\$82.53

Lots 3

1/2 HP No. 1P861
\$104.07

Lots 3



B

AUTOMATIC
1/3 HP No. 3P576
Cast Iron Base
\$99.92

Lots 3



C

1/3 HP No. 3P530
Bronze Base
\$116.27

Lots 3

A B Nos. 3P511, 3P579, 3P512, 1P861—Dependable Teel submersible pumps are made for tough jobs and long trouble-free service. Automatic models are ideally suited for use in homes, motels, schools, underground utility vaults, loading docks, and industrial plants. Automatic models start when water level is 2" over top of pump, shut off when water level drops to 5" above pump base. Manually-started pumps are industrial and contractor's models suited for draining ground water from excavations—start immediately and run continually when cord set is plugged in. Both manual and automatic models are powered by reliable 1/3 or 1/2 HP, 1725 RPM, 115V, 60 Hz split phase motors, with lifetime lubricated double ball bearings and automatic reset thermal protection. Maximum temperature of liquid being pumped should not exceed 130°F. Pump has steel motor housing, cast iron end shields, non-clogging reinforced styrene impeller and rustproof ABS plastic base. Air-operated diaphragm switch controls operation of automatic models. Automatic models come with 8 ft. 18-3 wire cord set, non-automatic models have 20 ft. 18-3 wire cord set.

C Nos. 3P576, 3P530—Quality built Teel submersible pumps give long dependable service in residential applications. Reliable Franklin Submatic 1/3 HP, 1725 RPM, 115V, 60 Hz split phase motor has automatic reset thermal protection. Motor and automatic switch are totally enclosed in corrosion resistant #304 stainless steel housing which acts as float and controls pump. Cut-in water level is adjustable between 10 and 7¼", cut-out between 7¼ and 4½". Pump has lifetime lubricated ball bearings, self-adjusting rotary shaft seal, heavy cast bronze impeller and cast iron or rustproof bronze base with screen. Installs in 16" or deeper sump. Maximum temperature of liquid being pumped should not exceed 130°F. 10 ft. 18-3 wire cord set included.

PUMP PERFORMANCE IN GPH AT TOTAL HEAD IN FEET

Fig.	Stock No.	HP	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.
A	3P511	1/3	4450	3900	3200	2300	Shut-off
A	3P579	1/2	5400	4800	4000	3000	Shut-off (26")
B	3P512	1/3	4450	3900	3200	2300	Shut-off
B	1P861	1/2	5400	4800	4000	3000	Shut-off (26")
C	3P576	1/3	2900	2300	1250	Shut-off	
C	3P530	1/3	2900	2300	1250	Shut-off (18")	

1/2 & 1/3 HP SUBMERSIBLE SUMP PUMP SPECIFICATIONS AND PRICES

Fig.	HP	Pump Base	Type	Discharge IPT	—Dimensions— H W	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
A	1/3	ABS Plastic	Automatic	1½"	10¼" 10¾"	3P511	\$133.00	\$93.10	\$88.45	26
A	1/2	ABS Plastic	Automatic	1½"	10¼" 10¾"	3P579	163.10	114.17	108.46	30
B	1/3	ABS Plastic	Manual	1½"	10¼" 9½"	3P512	124.10	86.87	82.53	26
B	1/2	ABS Plastic	Manual	1½"	10¼" 10¾"	1P861	156.50	109.55	104.07	30
C	1/3	Cast Iron	Automatic	1¼"	14½" 10	3P576	150.25	105.18	99.92	29
C	1/3	Bronze	Automatic	1¼"	14½" 10	3P530	174.84	122.39	116.27	30

REPLACEMENT PRESSURE SWITCH—Fits pumps Nos. 3P511 and 3P579. Automatically starts motor when water level is 2" over top of pump, shuts off when water level drops to 5" above pump base. Robertshaw Controls brand. Shpg. wt. 4 oz. No. 1R235. Retail \$9.56. Each \$7.17

SELF-PRIMING CENTRIFUGAL FILTER PUMPS

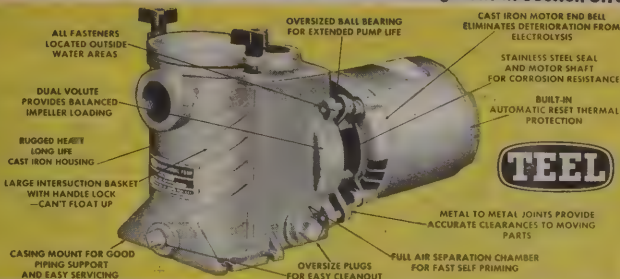
High & Medium-Head Types. For Swimming Pools and Other Uses Needing Built-in Suction Strainer

ALL-CAST IRON CONSTRUCTION

QUALITY-BUILT FOR FAST, EASY MAINTENANCE, LONG LIFE

**1/2 HP
\$112.27**

Lots 3



TEEL

Quality Teel pumps built with long life features in both pumps and motors to provide high performance and reliability. All units have heavy duty motors designed for swim pool pump service, with cast iron end bell and oversized ball bearings—#304 double-seal at pump end, #203 at switch end. Motors are dependable Dayton, continuous duty, 40° rise, 3450 RPM, NEMA 56J range, with stainless steel shafts. All are capacitor start, 115/208-230V, 60 Hz, have automatic reset thermal protection. No partial motors are used, so interchangeability and replacement are never a problem. Pull-from-the-rear design permits complete disassembly without disturbing piping or dismounting pump. Maximum temper-

ature of liquid pumped, 160°F.

Pumps have precision lapped stainless steel mechanical seal. Balanced patented dual volute minimizes bearing loads. Fast self priming and good air handling capabilities.

Oversized air space between motor and pump virtually eliminates hot/cold condensation problems on bearing. Back pressure gauge connection built-in (gauge not included; see listing below). Built-in oversized suction trap and strainer basket included; 12:1 ratio of basket opening to pump inlet size. Mounting base with holes for 5/16" diameter fasteners, spaced 2 1/2 x 5 1/2" OC. Not to be used where positive pressure on suction side of pump exceeds 5 psi.

PUMP PERFORMANCE—Gallons of Water Per Hour @ Total Feet of Head

Type	HP	Stock No.	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.	70 Ft.	80 Ft.
Medium Head	1/2	1P856	3660	3060	2220	780	—	—	—
Medium Head	3/4	1P857	4080	3600	2940	2100	780	—	—
Medium Head	1	1P858	4440	3960	3420	2820	1920	120	—
High Head	1/2	1P859	2940	2640	2160	1740	1140	120	—
High Head	3/4	1P860	3480	3180	2820	2220	1800	1320	120

SELF-PRIMING CENTRIFUGAL FILTER PUMP PRICES AND DIMENSIONS

HP	Type	Suction & Discharge	H	Overall W	L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/2	Medium Head	1 1/2"	10 1/4"	6 1/2"	18 1/2"	1P856	\$168.82	\$118.17	\$112.27	51
3/4	Medium Head	1 1/2"	10 1/4"	6 1/2"	19 1/2"	1P857	178.10	124.67	118.44	55
1	Medium Head	1 1/2"	10 1/4"	6 1/2"	19 1/2"	1P858	189.73	132.81	126.17	58
1/2	High Head	1 1/2"	10 1/4"	6 1/2"	18 1/2"	1P859	168.82	118.17	112.27	52
3/4	High Head	1 1/2"	10 1/4"	6 1/2"	19 1/2"	1P860	178.10	124.67	118.44	55

REPLACEMENT STRAINER BASKET

1R224. Replacement Strainer Basket for pumps above. Shpg. wt. 3 oz. Retail \$4.20. Each.....\$3.00

INTERCHANGEABILITY GUIDE—Performances Comparable; Dimensions May Vary

Brand	Pump Model Numbers				
TEEL	1P856	1P857	1P858	1P859	1P860
Hayward	SP1300X	SP1350X	SP1400X	SP1310X	SP1360X
Sta-Rite	—	—	—	CKCH	CKHD

Teel pumps also interchangeable with most other brands.



0 to 60 PSI PRESSURE GAUGE FOR ABOVE AND SIMILAR PUMPS

Steel case, glass lens, glass reinforced nylon movement. 2" dial. 1/4" MPT bottom connection. Ametek brand. Shpg. wt. 3 oz.

No. 5X939. 0 to 60 PSI Pressure Gauge. Retail \$4.65. Each \$2.56; lots 10.....\$2.43

9 to 60" BLADE DAYTON EXHAUST FANS STOCKED

You can get fans for any type of commercial, industrial or farm building ventilating requirement at a lower price. Large stocks of most commonly-used types of fans are maintained—belt-driven, direct-driven, centrifugal-flow, roof-type, shutter-



mounted, guard-mounted, tubeaxial, etc.—also a complete line of blowers for ventilating, heating and cooling—all listed in this MotorBook. You can rely on the Dayton brand for quality construction at low price. See Index under Fans or Blowers.

SEE WARRANTY INFORMATION ON PAGE 684

WATER SYSTEM CIRCULATING PUMP

Primarily used for Domestic Hot Water Heating Systems. Quiet, Dependable Operation, Teel Brand

Boosts efficiency of closed, hot water heating systems. Widely used for small boilers, commercial hot water loops, etc. Pumps can be mounted horizontally or vertically, and will replace standard circulators by using one of the four sets of flange sets listed in table at right, below.

Seal-Less Type Magnetic Drive

Smaller than standard seal-type pumps, but equal in performance — and quiet operating. Pump uses a powerful ceramic drive magnet encircling ceramic impeller magnet that permits impeller to operate friction-free of spindle. Magnetic torque 50% greater than motor running torque — prevents slippage of impeller magnet. Cast iron volute, Ryton impeller and heat shield which prevents heat transfer from

water to motor. 1/20 HP, 1600 RPM, 110V, 60 Hz. rubber mounted motor. 6 $\frac{3}{8}$ " H x 4 $\frac{1}{2}$ " W x 10" L. Will handle water to 250°F; 150 PSI system pressure. Shpg. wt. 12 lbs.

PUMP LESS MOUNTING FLANGE

No. 1P761. Pump priced and sold less flange—Select flange from table below. Retail \$96.65. Each \$67.66; lots 6.....\$62.82

Performance in GPH at Total Feet of Head, $\frac{3}{4}$ " Pipe*

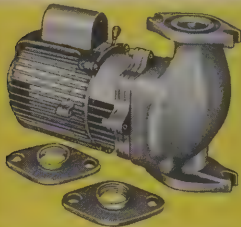
Head: 1 ft.	3 ft.	5 ft.	7 ft.	8 ft.
GPH: 1300	1140	840	420	shut off

(*) Capacity increases 10% for each $\frac{1}{4}$ " increase in pipe size up to 1 $\frac{1}{2}$ " IPT max. Recommend suction line one size larger than discharge line.

MOUNTING FLANGE SETS FOR NO. 1P761

Set includes 2 flanges, necessary bolts, and flexible rubber gaskets for proper seal. 4 sizes listed below handle 90% of all applications. Dealers who stock one circulator and one of each flange set can meet most requirements with minimum inventory. No flange set is included with No. 1P761 pump listed above. Order appropriate flange sets from those listed below.

IPT	Stock No.	Retail	Each	Lots 6
3/4"	1P660	\$6.45	\$4.52	\$4.19
1"	1P661	6.40	4.48	4.16
1 $\frac{1}{4}$ "	1P662	6.40	4.48	4.16
1 $\frac{1}{2}$ "	1P663	6.40	4.48	4.16



TEEL

\$62.82

Less Flange
Lots 6

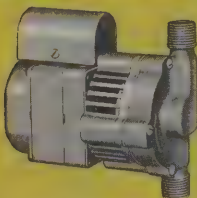
Flange Set
No. 1P661

\$4.16

Lots 6

MULTI-PURPOSE BRONZE WATER SYSTEM PUMP

Specifically Designed for Domestic and Commercial Hot Water Loops. Can Be Used as a Zone Valve



Bronze Body Construction

TEEL

\$41.24

Lots 6

High-efficiency, compact bronze booster pump for hot water heaters and commercial hot water loops. Also used on all types of domestic hot water recirculation in residences, garden apartments, etc. A must for room additions with hard-to-heat areas that require an additional zone. Excellent for installations using base board radiation with small water content and minimum pump head requirements. Quiet operation. For water systems up to 150 PSI. Bronze body, long-life Ryton impeller; will handle water to 250°F. Seal-less magnetic drive. $\frac{1}{2}$ " male NPT connections. Motor is impedance protected, 115V, 60 Hz. Pump head can be rotated at 90° intervals and inner baffle plate permits pump servicing without losing boiler or heater water. 5 H x 3 $\frac{3}{4}$ W x 5" L. Shpg. wt. 4 $\frac{1}{2}$ lbs.

PERFORMANCE & PRICES

PSI	Head	GPH, 1 Ft. Head	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
1.5 Max.	3.5 ft. Max.	200	1P760	\$63.45	\$44.42	\$41.24	4 $\frac{1}{2}$

AQUARIUM TANK AIR PUMP

\$14.16 Lots 4



Delivers 225 cu. in. of air per minute into aquarium tank. Piston-type pump has $\frac{3}{4}$ " brass cylinder, $\frac{5}{8}$ " stroke. Belt-driven by 1/70 HP, 1550 RPM, 115V, 60 Hz, 55-watt fan cooled shaded pole motor with Perma-wick lubrication. Will not bind or freeze due to back pressure. Built-in check valve. Quiet operation. $\frac{3}{16}$ " male brass connection fits rubber tubing or our No. 1P517 plastic tubing ($\frac{1}{4}$ " OD). 2 $\frac{1}{4}$ " dia. fly wheel. 8 ft. cord set. 5 $\frac{1}{2}$ " L x 4 $\frac{1}{2}$ " W x 4 $\frac{3}{8}$ " H. Cosmic brand (711-A). Shpg. wt. 3 $\frac{1}{4}$ lbs.

No. 1P515. Aquarium Tank Pump. Retail \$21.78. Each \$15.25; lots 4.....\$14.16

TEEL SUMP DRAIN HOSE

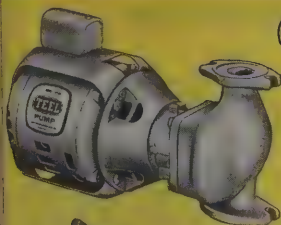
\$4.75 Lots 3



Flexible polyethylene hose for cellar drainers, centrifugal and submersible pumps. Ready to install, fits over adapter (included), screws into outlet of users pump. For permanent or emergency installations. 24' long x 1 $\frac{1}{4}$ " inside diameter. Withstands pressures up to 35 psi, has double cuffs every 8 ft. Includes hose, 1 $\frac{1}{4}$ " male polyethylene adapter and stainless hose clamp. Shpg. wt. 3 $\frac{1}{4}$ lbs. No. 1P887. Sump Drain Hose. Retail \$7.03. Each \$5.27; lots 3.....\$4.75

TEEL IN-LINE CIRCULATOR PUMPS

8 to 54 GPM. Up to 15 ft. Head. 1/12 and 1/6 HP, 115V, 60 Hz Motors. Cast Iron or Cast Bronze



TEEL

No. 1P899

\$62.22

Lots 6



**Repair Kit
For Pumps**

No. 1R241

\$24.94

Lots 6

Shown Unassembled

Quiet operating Teel water circulating pumps designed for in-line multi-stage zoning applications in hydronic heating and cooling systems for residential and small commercial or industrial applications. May also be utilized in domestic water pressure systems and OEM equipment requiring circulation of liquids. Maximum operating pressure 125 PSI, maximum temperature 225°F. Bronze pump has cast bronze body with stamped brass impeller. This pump may be used for booster service in domestic water systems. Cast iron pumps have cast iron body with cadmium plated steel impeller. All models have radially split pump bodies; unit can remain in line during repair or maintenance, no need to disconnect piping when servicing. Pumps are driven by either 1/12 or 1/6 HP, 1725 RPM, 115V, 60 Hz single phase, resilient mount, sleeve bearings, NEMA 48Y frame motors with automatic reset thermal protection. 50°C rise. Flange set included with Nos. 1P901 and 1P902 pumps. For all other models, order flange sets separately from list below. Assembled repair kits available for fast, simple rebuild. See separate listing below.

IN-LINE CIRCULATOR PUMP PERFORMANCE IN GPM

HP	Stock No.	Total Head in Feet															
		3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1/12	1P899, 1P903	28	25	21	17	11	8	—	—	—	—	—	—	—	—	—	—
1/6	1P900	—	—	—	42	38	35	30	10	—	—	—	—	—	—	—	—
1/6	1P901	—	—	54	50	46	41	36	25	—	—	—	—	—	—	—	—
1/6	1P902	—	—	—	—	—	—	23	21	19	17	15	12	9	—	—	—

IN-LINE CIRCULATOR PUMP SPECIFICATIONS AND PRICES

HP	Pump Body	Fit Pipe Sizes	Full/Load Amps	—Dimensions—			Stock No.	Retail	Each	Lots 6	Shpg. Wt.
				W	L	H					
1/12	Cast Iron	3/4, 1, 1 1/4, 1 1/2"	2.8	13 3/4"	6"	8 3/4"	1P899	\$93.56	\$65.49	\$62.22	19
1/12	Bronze	3/4, 1, 1 1/4, 1 1/2"	2.8	13 3/4"	6"	8 3/4"	1P903	152.14	106.50	101.17	20
1/6	Cast Iron	1, 1 1/4, 1 1/2"	3.8	15 7/8"	6 3/8"	10 7/8"	1P900	142.26	99.58	94.60	30
1/6	Cast Iron	2	3.8	15 7/8"	6 3/8"	10 7/8"	1P901	173.49	121.44	115.37	36
1/6	Cast Iron	1	3.8	15 7/8"	6 3/8"	10 7/8"	1P902	191.19	133.83	127.14	33

Order flange set separately if required, see listing below.

FLANGE SETS FOR NOS. 1P899, 1P903 & 1P900 PUMPS

Pipe Size	Fit Pump	Flange Material	Stock No.	Set, Each	Lots 6	Shpg. Wt.
3/4"	1P899	Cast Iron	6X484	\$3.30	\$3.13	1 1/4"
1"	1P899	Cast Iron	6X485	3.30	3.13	1 1/4"
1 1/4"	1P899	Cast Iron	6X486	3.30	3.13	1 1/4"
1 1/2"	1P899	Cast Iron	6X487	3.30	3.13	1 1/4"
1"	1P903	Cast Bronze	6X488	9.50	9.02	2
1 1/4"	1P903	Cast Bronze	6X489	9.50	9.02	2
1 1/2"	1P903	Cast Bronze	6X490	9.50	9.02	2
2"	1P903	Cast Bronze	6X491	9.50	9.02	2
1"	1P900	Cast Iron	6X492	4.20	3.96	3
1 1/4"	1P900	Cast Iron	6X493	4.20	3.96	3
1 1/2"	1P900	Cast Iron	6X494	4.20	3.96	3

REPAIR KITS FOR PUMPS

Pump repair kit consists of: mechanical seal, bearing assembly, impeller, gasket, oil and coupler. Shipped assembled in box.

Fits	Stock No.	Retail	Each	Lots 6	Wt.
1P899	1R241	\$37.50	\$26.25	\$24.94	3 1/4"
1P900, 1P901	1R247	59.17	41.42	39.35	4
1P902	1R248	86.47	60.53	57.50	5 1/4"
1P903	1R249	51.36	35.95	34.15	3 1/4"

Time Switches—Large Line Stocked

Grainger has time switches for home, farm, and commercial needs—lights, fans, pumps, feeders, etc. See Index under Switches, Time.

REPLACEMENT MOTOR FOR TEEL, ARMSTRONG, AND BELL & GOSSETT PUMPS

6K509 replaces motors on Teel pump Nos. 1P899 and 1P903. Motor is electrically and mechanically comparable to original equipment motors. Motor No. 6K509 is 1/8 HP, split phase, 1725 RPM, 115V, 60 Hz, sleeve bearing.

40°C ambient, 1.0 service factor, continuous duty. Open, drip-proof construction. Automatic reset thermal protection. Rotation easily reversed by electrical reconnection. Motor supplied with C-face bracket for simple installation.

IP	RPM	Mounting	—Shaft— Dia. Long	Type	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/8	1725	C-Face Bracket	1/2" 4 1/4"	Screw hole	2.7	6K509	\$46.05	\$30.15	16

INTERCHANGEABLE PUMP REPLACEMENT DATA—PUMPS AND REPAIR KITS

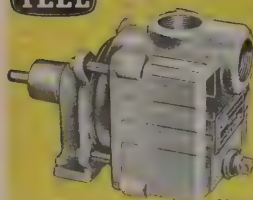
Armstrong	Bell & Gossett	Taco	Thrush	Teel Pump Stock No.	Repair Kits For Teel, Armstrong, B & G Only
S-25	100, 125, 150	110	C-1 1/2"	1P899, 1P903 (Bronze)	1R241, 1R249 (Bronze)
S-35	2"	120	22 H	1P901	1R247
H-32	1 HV, 1 1/4 HV, 1 1/2 HV	110	HH	1P900	1R247
H-41	1" PR.	113	TC	1P902	1R248

SEE WARRANTY INFORMATION ON PAGE 684

1 & 1 1/4" SELF-PRIMING CENTRIFUGAL PUMPS

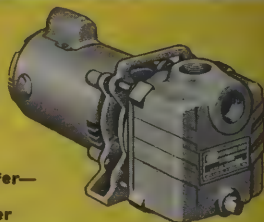
MEDIUM HEAD, CAST IRON CONSTRUCTION

TEEL



A
Pump Head Only
\$45.22
Lots 3

B
Close Coupled Pump
\$84.66
1/3 HP, Lots 3



**For Medium Volume Liquid Transfer—
Irrigation, Dewatering, Etc.
Clog-Resistant Cast Iron Impeller
Handles Liquids and Semi-Solids to 3/8" Diameter**

Self-priming centrifugal pump develops up to 60' total head, suction plus discharge, for medium head applications including irrigation, dewatering, etc. Dual-volute design. Close coupled pump will self-prime at up to 20 ft. lift. Pump head is cast iron constructed, has semi-open clog-resistant cast iron impeller. Handles sediment laden liquids and semi-solids up to 3/8" diameter. Precision lapped stainless steel mechanical seal has ceramic seat, carbon face. Buna N bellows. Maximum temperature of liquid being pumped 160°F.

A No. 1P884 Pump Head. Can be direct or belt driven from 5/8" diameter carbon steel shaft

having 3/4 x 1/32" keyway. Precision ball bearings are sealed for life. Shaft height 3 1/8", 1 1/4" NPT female inlet and outlet ports. Mounting holes are 3 1/2" OC, adapts to universal pump mounting base No. 1P675, see Index under Bases, Pump Mounting for listing. Overall dimensions 11 x 6 5/8 x 7 3/8" H. Maximum suction lift 14 ft., maximum RPM 3450.

B Close Coupled Models. Driven by Dayton 1/3, 1/2, 3/4 and 1 HP 3450 RPM, NEMA 56J frame, continuous duty motors with automatic reset thermal protection and shielded ball bearings locked onto shaft end. Cast iron mounting base has 7/16" mounting holes 6" OC.

PUMP HEAD ONLY—PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

Fig.	Port Size	Stock No.	Pump RPM	Min. HP Required	10'	15'	20'	30'	40'	50'	60'
A	1 1/4"	1P884	1750	1/4	1240	120	—	—	—	—	—
			2300	1/3	2245	1740	1040	—	—	—	—
			2800	1/2	3040	2740	2325	1220	—	—	—
			3450	1	3950	3780	3560	2970	2170	1160	—

CLOSE-COUPLED PUMP/MOTOR COMBINATIONS—GPH AT TOTAL FEET OF HEAD

Fig.	Port Size	Stock No.	HP	—Motor— Volts/60 Hz	10'	15'	20'	30'	40'	50'	60'
B	1"	3P577	1/3	115/208-230	3000	2750	2500	2000	1400	—	—
B	1 1/4"	1P852	1/2	115/208-230	4000	3800	3600	3000	2200	1200	—
B	1 1/4"	1P853	3/4	115/208-230	4650	4475	4300	3700	3000	2000	830
B	1 1/4"	1P854	1	115/208-230	4900	4650	4400	3800	3200	2450	1500

PUMP SPECIFICATIONS AND PRICES

Fig.	HP	Suction & Discharge	Description	—Dimensions—			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
				H	W	L					
A	—	1 1/4"	Head Only	7 3/16"	6 5/8"	11"	1P884	\$68.00	\$47.60	\$45.22	23
B	1/3	1"	Close Coupled	10	5 1/4"	13 3/16"	3P577	127.31	89.11	84.66	37
B	1/2	1 1/2"	Close Coupled	10	5 3/4"	13 3/16"	1P852	135.50	94.85	90.11	40
B	3/4	1 1/4"	Close Coupled	10	5 3/4"	13 3/16"	1P853	146.93	102.85	97.71	43
B	1	1 1/4"	Close Coupled	10	5 3/4"	13 3/16"	1P854	156.59	109.61	104.13	46

SPIN-A-BIN, 20 SECTIONS

12 1/2" Diameter 18" High
4 Revolving Trays

\$18.45
Lots 3

Saves space and time in handling small parts, etc., everywhere used. Unit has four trays that revolve on ball bearings and each tray has five sections to yield 20 sections. Unit is 12 1/2" dia. and 18 1/4" high. Welded steel construction. Shpg. wt. 12 lbs.

No. 1W335. Spin-A-Bin. Ret. \$25.20. Each \$20.15; lots 3 \$18.45



GALVANIZED STEEL NIPPLES

Available in 1 1/2 x 4", 2 x 4" and 3 x 5" Sizes



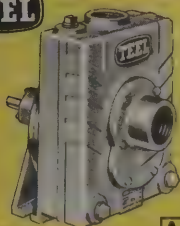
No. 1P889 Galvanized steel standard nipples for connecting suction strainer to suction hose, and suction hose to self-priming centrifugal pumps. Also for connecting threaded hose fittings on discharge hose to discharge port on pump. Midwest brand.

Size	Stock No.	Retail	Each	Lots 6	WT.
1 1/2 x 4"	1P889	\$1.33	\$0.86	\$0.80	3 1/2
2 x 4	1P890	1.78	1.16	1.07	1
3 x 5	1P891	6.58	4.28	3.95	2 1/2

1½ & 2" SELF-PRIMING CENTRIFUGAL PUMPS

HIGH-HEAD WITH CAST IRON BODY

TEEL



For High Volume Liquid Transfer
Irrigation, Dewatering,
Lawn Sprinkling, Etc.

Clog-Resistant Cast Iron Impeller
Handles Semi-Solids to 3/8" Dia.,
and Sediment Laden Liquids

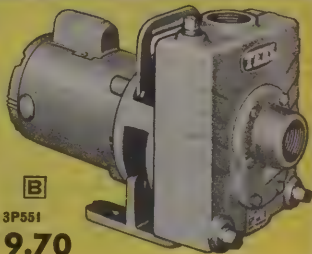
Excellent for Liquids with
Entrained Air or Gases

No. 1P746

\$63.90

Lots 3

A



No. 3P551

\$119.70

Lots 3

B

High heads up to 90 ft. total (suction plus discharge) are developed by special dual volute with recirculation port designed to deliver volume and pressure that exceed most conventional centrifugals. Maximum suction lift 20 ft. Pumps have either 1½ or 2" NPT suction and discharge ports. ¾" double sealed ball bearings, stainless steel shaft sleeve. Precision lapped stainless steel mechanical seal with ceramic at, carbon face, Buna N seals.

No. 1P746 Pump Head (1½" suction and discharge) is for direct or belt drive, 5/8" diameter carbon steel shaft with 3/16 x 3/32" keyway. 4½" shaft height. Mounting slots 4½" OC; fits mounting base No. 1P675 listed below.

No. 1P895 Pump Head (2" suction and discharge) is for direct or belt drive, ¾" carbon steel shaft with 3/16 x 3/32" keyway. 4¾" shaft height. Four mounting holes 3¾" OC, 2½" front to rear; fits mounting base No. 1P675 listed below.

B Close-Coupled Models are driven by Dayton capacitor-start, 3450 RPM, 115/208-230V, 60 Hz, motors with automatic reset thermal protection, NEMA 56J frame, 40°C rise, continuous duty, stainless steel shaft. Shielded ball bearings at switch and shaft end of 1½ & 2 HP, and at shaft end of 1/2 & 3/4 HP; sleeve bearing at switch end. Have carrying handle, cast iron mounting base with ¾" mounting slots 3½ x 4½" OC.

PUMP HEADS ONLY—PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

Port Size	Pump Head Stock No.	Pump RPM	Min. HP Required	10'	20'	30'	40'	50'	60'	70'	80'	90'
1½"	1P746	1725	1/2	2580	600	—	—	—	—	—	—	—
		2300	3/4	4200	3000	1260	—	—	—	—	—	—
		2800	1	—	4380	3600	2400	600	—	—	—	—
		3450	2	—	6360	5880	5280	4500	3600	2400	1200	—
2"	1P895	1750	1/2	3120	—	—	—	—	—	—	—	—
		2300	1	5040	3540	1440	—	—	—	—	—	—
		2800	1½	—	5650	4440	2940	600	—	—	—	—
		3450	2	—	8100	7320	6000	5100	4260	3000	1280	—

CLOSE-COUPLED PUMP/MOTOR COMBINATIONS—GPH AT TOTAL FEET OF HEAD

Port Size	Stock No.	HP	Motor—Volts, 60 Hz	10'	20'	30'	40'	50'	60'	70'	80'	90'
1½"	3P551	1/2	115/208-230	3450	3075	2650	2200	1650	1100	400	—	—
1½"	3P552	3/4	115/208-230	4650	4300	3850	3350	2750	2100	1200	—	—
1½"	3P553	1½	115/208-230	5950	5500	5010	4500	3900	3250	2550	1800	900
1½"	1P851	2	115/208-230	7000	6700	6100	5500	4900	4200	3350	2500	1450
2"	1P896	1½	115/208-230	6600	5760	5100	4500	3600	2880	1800	900	—
2"	1P897	2	115/208-230	7620	6900	6180	5400	4560	3600	2400	1200	—

PUMP SPECIFICATIONS AND PRICES

g. HP	Suction & Discharge	Description	H	W	L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
—	1½"	Head Only	10⅞"	7⅞"	11⅞"	1P746	\$96.02	\$67.21	\$63.90	33
1/2	1½"	Close Coupled	11	7⅞"	16⅞"	3P551	180.00	126.00	119.70	52
3/4	1½"	Close Coupled	11	7⅞"	16⅞"	3P552	192.24	134.57	127.84	55
1/2	1½"	Close Coupled	11	7⅞"	17⅞"	3P553	246.63	172.64	164.00	62
2	1½"	Close Coupled	11	7⅞"	18⅞"	1P851	278.67	195.07	185.32	69
—	2"	Head Only	10⅞"	7⅞"	15⅞"	1P895	138.98	97.29	92.42	38
1/2	2"	Close Coupled	11⅞"	7⅞"	18⅞"	1P896	247.95	173.57	164.89	68
2	2"	Close Coupled	11⅞"	7⅞"	19⅞"	1P897	279.36	195.55	185.77	75

TEEL UNIVERSAL-TYPE PUMP MOUNTING BASE

Designed to fit all Teel gear and centrifugal pumps, and motors recommended to power them, either direct or belt drive. Sturdy, stamped steel, 22 L, 15 W, 1½" H bed. 17" wide overall, including 1" flange at each side. Machine gray finish. Teel brand. Shpg. wt. 16 lbs.

1P675. Teel Pump Base. Retail \$18.57. Each \$13.93; lots 4.....\$13.00

SEE WARRANTY INFORMATION ON PAGE 684

LIQUID PUMP TERMINOLOGY

Flow—the measure of the liquid volume capacity of a pump. Given in gallons per hour (GPH) or gallons per minute (GPM). To convert GPH to GPM, divide by 60.

Pressure—the force exerted on the walls of a container (tank, pipe, etc.) by the liquid. Measured in pounds per square inch (PSI).

Head—another measure of pressure; expressed in feet. Usually applies to centrifugal pumps. Indicates the height of a column of water being lifted by the pump, neglecting friction losses in piping. For water, divide head in feet by 2.31 to get pressure in pounds per sq. inch (PSI).

Flooded suction—source of the liquid is higher than pump, and liquid flows to the pump by gravity. Preferable for centrifugal pump installations.

Lift (Suction Lift)—source of the liquid is lower than the pump. A partial vacuum is created by pumping action, and atmospheric pressure forces liquid up to pump. Theoretical limit of suction lift is 34 feet; practical limit is 25 feet or less, depending on pump type and elevation above sea level.

Total Head—the sum of discharge head, suction lift and friction losses.

Prime—a charge of liquid required to begin pumping action of centrifugal pumps when liquid source is lower than pump. May be held in pump by a foot valve on the intake line or a valve or chamber within the pump.

Specific Gravity—the ratio of the weight of a given volume of a liquid to the same volume of pure water. Unless stated otherwise, power requirements of all pumps listed herein are based on pumping water. Pumping heavier liquids (specific gravity greater than 1.0) will require more drive horsepower. See Index under Rotary Gear Pumps for additional information.

Viscosity—the "thickness" of a liquid, or, its ability to flow. Temperature must be stated when specifying viscosity, since most liquids flow more easily as they get warmer. The more viscous the liquid, the slower the pump speed required. See Index under Rotary Gear Pumps for additional information.

Seal—a device mounted in the pump housing and/or on the pump shaft, to prevent leakage of liquid from the pump. Two types:

Mechanical: Has two parts; a rotating and a stationary element, with highly polished touching surfaces. Has excellent sealing capability and life, but can be damaged by dirt or grit in the liquid.

Lip: A flexible ring (usually rubber or similar material), with the inner edge held closely against the rotating shaft by a spring.

Seal-less (Magnetic Drive)—No seal is used; power is transmitted from motor to pump impeller by magnetic force, through a wall that completely separates motor from impeller.

PUMP ACCESSORIES

Relief Valve—Usually used at the discharge of a positive displacement pump. An adjustable, spring-loaded valve opens, or "relieves," when a preset pressure is reached. Used to prevent excessive pressure and pump or motor damage if discharge line is closed off.

Unloader Valve—similar to relief valve, but not adjustable.

Check Valve—allows liquid to flow in one direction only. Generally used in discharge line to prevent reverse flow.

Foot Valve—a form of check valve with a built-in strainer. Used at point of liquid intake to

retain liquid in system, preventing loss of prime when liquid source is lower than pump.

Pulsation Damper—used on piston-type positive displacement pumps to reduce magnitude of pressure pulsations from each piston stroke. Consists of an air chamber above the liquid or a pressurized "bladder" in a housing.

PUMP TYPES

Centrifugal—consists of a fan-shaped impeller rotating in a circular housing, pushing liquid towards a discharge opening. Simple design; only wearing parts are the shaft seal and bearings (if so equipped). Usually used where large flow of liquid at relatively low pressure (head, lift) is desired. Not self-priming unless provided with a priming reservoir or foot valve; works best with the liquid source higher than the pump (flooded suction/gravity feed). As the discharge pressure, or head, increases, drive power requirements and flow rate decrease. Maximum flow rate and motor loading occur at minimum head.

Positive Displacement—pumping action created by moving chambers or pistons. The flow rate of this pump is almost the same at any pressure level. Generally self-priming. Should never be operated dry, because of internal wearing or rubbing parts. As discharge flow is restricted (higher pressure or head, etc.), drive horsepower requirement increases. To prevent overpressure and damage to pump or motor if discharge line is closed off or severely restricted, a relief device should be provided on the discharge line. The most common positive displacement pump types are:

Gear—consisting of two meshed spur gears in a housing. As gears rotate, fluid is carried in the space between the teeth. Will not handle abrasives because of close running tolerances of gears. For pressures to 100 psi. Suited for pumping more viscous liquids, at slower speeds.

Flexible Impeller—a flexible, vaned member, usually rubber, rotating in an eccentric housing. The volume of the spaces between the vanes changes as the pump rotates, creating pumping action. For medium pressure (up to 30 PSI) applications.

Rotary Screw—a screw-shaped rotor, turning within a flexible stator, usually of rubber. Progressing cavities between screw and stator carry the fluid. For pressures up to 75 PSI. Can handle abrasive mixtures or slurries, at slower speeds.

Roller or Vane—rollers or vanes in a rotor, rotating in an eccentric housing, similar to that of a flexible impeller pump. For pressures up to 200 PSI.

Piston—fluid is drawn in and forced out by pistons moving within cylinders. Used where pressures in the area of 600 PSI are required.

Jet—a form of centrifugal pump utilizing water flow through a narrow opening or nozzle (jet, ejector) to bring water from a well. As water is forced through the nozzle, an area of low pressure is created, and atmospheric pressure forces additional water from the well into the system. In shallow well systems (up to 25 ft. lift), the ejector is located at the pump. In deep well systems, it is located at the bottom of the well.

Deep Well Submersible—another form of centrifugal pump, in which a number of impeller assemblies, in a housing, are mounted on a shaft directly coupled to a submersible motor. This entire assembly is located at the bottom of the well. Power is brought to the motor through a waterproof cable.

ENGINE-DRIVEN SELF-PRIMING CENTRIFUGAL PUMPS

Briggs & Stratton 4-Cycle Engines. Self-Prime to 20 Ft. Lift. Teel Brand

1½ & 2" HIGH-HEAD, CAST IRON OR ALUMINUM

ALUMINUM

For General Use—
Irrigation, Draining,
Transfer Pumping,
Lawn Sprinkling, Etc.

\$151.20

1½", Lots 3

CAST IRON

For Fertilizers,
Abrasive Liquids,
Muddy or Sandy Water,
and General Use

\$155.87

1½", Lots 3

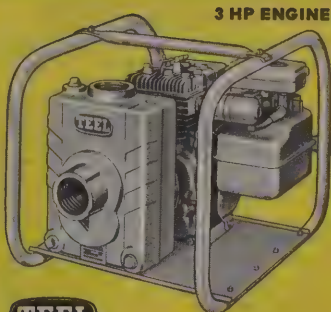
Patented dual volute design develops high head, up to 80 ft. total (suction plus discharge). Semi-open, clog-resistant impeller handles solids to ½" dia. and sediment laden liquids. Precision lapped stainless steel seal with ceramic face, carbon seat, Buna N seals; circulation chamber to keep seal face clean. Self-priming to 20 ft. lift; for faster priming use foot valve, 1½" No. X746, 2" No. 6X149 (not included). Rugged, tubular steel frame and carrying handle; steel baseplate with shock mount pads. Briggs & Stratton 3 HP, 3600 RPM, 4-cycle engine with recoil start, 2 qt. tank. Shipped assembled.

ALUMINUM MODELS

Have cast aluminum body and impeller, are suitable for general water transfer use. Weigh less than comparable cast iron units.

CAST IRON MODELS

Have cast iron body and impeller, are for liquid fertilizers, abrasive liquids, muddy or sandy water and for general water transfer.



TEEL

PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

Models	Ports	10'	20'	30'	40'	50'	60'	70'	80'	90'
1P868 & 3P525	1½"	6720	6420	6000	5460	4740	3700	2500	1200	—
1P869 & 3P526	2"	9000	8400	7800	6960	6000	4800	3120	1250	—

PUMP SPECIFICATIONS AND PRICES

Ports	Construction	H	W	L	Stock No.	Retail	Each	Lots 3	Wt.
1½"	Aluminum	16"	14"	18"	3P525	\$227.37	\$159.16	\$151.20	48
2"	Aluminum	16	14	18	3P526	238.64	167.05	158.70	50
1½"	Cast Iron	16	14	18	1P868	234.40	164.08	155.87	64
2"	Cast Iron	16	14	18	1P869	246.05	172.24	163.62	72

1½" MEDIUM-HEAD, CAST IRON CONSTRUCTION

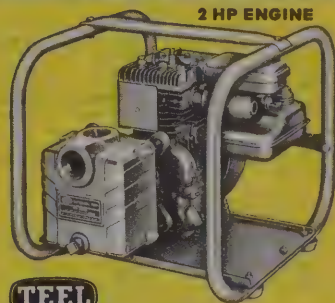
For Water Drainage,
Transfer Pumping,
Liquid Fertilizer,
Coolant Circulation

\$135.31

No. 1P855
Lots 3

For clear, semi-solid or sediment-laden liquids. Unique dual-volute design retains self-priming ability even after considerable impeller wear, outlasting conventional types. Open, clog-resistant, cast iron impeller can handle sediment laden liquids with particles up to ¾" diameter. Precision lapped stainless steel seal with ceramic face, carbon seat, Buna N seals. 1½" ports. Rugged tubular steel frame and carrying handle; steel baseplate with shock mount pads. 15 H, 19" W, 19" L overall. 2 HP, 3600 RPM Briggs & Stratton 4-cycle engine with recoil start, 1 qt. tank. Shipped completely assembled. Teel Brand. 64 lb. wt. 53 lbs.

No. 1P855. 2 HP Engine-Driven Pump. Retail \$148. Each \$142.44; lots 3.....\$135.31



TEEL

No. 1P855 PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

HP	Ports	10 Ft.	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.
2	1½"	5000	4500	4000	3300	2450	1350

SECTION & DISCHARGE HOSES AVAILABLE FOR THESE PUMPS. See Index under Hose, Water.

SEE WARRANTY INFORMATION ON PAGE 684

3" HEAVY DUTY SELF-PRIMING CENTRIFUGAL PUMPS

5 or 8 HP Briggs & Stratton Engine. Capacities to 18,000 GPH @ 10 Ft. Head

- For Dewatering Excavations, Basements and Other Large Flooded Areas, Irrigation, Etc.
- Heavy Duty Cast Aluminum Body; Replaceable Cast Iron Wear Plate and Cutwater Assembly For Long Service Life
- Pump Water Containing Trash and Solid Matter Up to 3/4" Diameter
- Self-Prime at Up To 25 Foot Lift

5 HP, 13,000 GPH	8 HP, 18,000 GPH	WHEEL KIT
\$255.30	\$315.69	\$32.00
Lots 3	Lots 3	Lots 3

Rugged, yet light in weight. High capacity and easy mobility make these pumps excellent for contractors, utilities, farmers, fire departments, etc. Self-prime to 25 ft. lift, without foot valve. Smooth internal passages and semi-open aluminum impeller minimize clogging—handle solids up to 3/4" dia. Precision lapped mechanical seal located in large recirculating chamber designed to keep seal clean and free of abrasive material. 3" NPT suction and discharge ports. Carrying handle included. 25 L, 20 W, 19" H overall. Teel brand. 3600 RPM Briggs & Stratton 4-cycle engines with recoil start. 3-qt. fuel tank on 5 HP unit, 1-gallon tank on 8 HP model.

Optional wheel mounting kit, hoses and suction strainer available; see listings below.



Shown: No. 3P582
With No. 1P813
Wheel Kit in Place

Handle Center-Mounted on
Pump as Furnished

3" CENTRIFUGAL PUMP PRICES

HP	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
5	3P600	\$383.90	\$268.73	\$255.30	71
8	3P582	474.72	332.30	315.69	86

PUMP PERFORMANCE IN GPH OF WATER AT TOTAL FEET OF HEAD

HP	Stock No.	10 Ft.	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.	70 Ft.	80 Ft.	90 Ft.
5	3P600	13,000	12,000	11,250	10,000	8,750	7,250	5,250	3,200	—
8	3P582	18,000	16,750	15,600	14,250	12,900	11,000	9,300	7,200	4,600

WHEEL MOUNTING KIT FOR PUMPS ABOVE

Includes axle assembly with two 10 x 1.75" ball-bearing semi-pneumatic wheels, plus cast iron front end assembly and steel handle bracket

with foot. Shpg. wt. 17 lbs.
No. 1P813. Mounting Kit. Retail \$48.09. Each \$33.67; lots 3 \$32.00

1 1/2, 2 AND 3" DIAMETER SUCTION & DISCHARGE HOSES

Built for all types of industrial, commercial, contractor, irrigation and similar heavy-duty water handling applications. Suction hose is wire reinforced; discharge hose is 2-ply construction. Tube is black, non-porous, alkaline-resistant smooth-bore rubber. Cover is abrasion and weather resistant. Has male and female aluminum shank couplings with brass Pin Lug swivel. Suction hoses rated 50 PSI, discharge hoses 60 PSI.

No. 3P574
\$27.99

Lots 4

TEEL

1 1/2, 2 & 3"
Diameter
Hoses



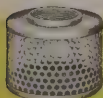
SUCTION HOSES

Dia.	Long	Stock No.	Each	Lots 4	Wt.
1 1/2"	20 ft.	3P572	\$41.70	\$38.50	23
2"	20 ft.	3P573	\$49.91	\$50.69	23
3"	10 ft.	3P583	\$56.89	\$52.52	31

DISCHARGE HOSES

Dia.	Long	Stock No.	Each	Lots 4	Wt.
1 1/2"	25 ft.	3P574	\$30.32	\$27.99	12
2"	25 ft.	3P575	\$35.26	\$32.55	16
3"	25 ft.	3P584	\$59.29	\$54.73	30

1 1/2, 2 & 3" NPT SUCTION STRAINERS—16 Ga., 1/4" OPENINGS



Prevents large particles of sediment, mud, stones, etc. from entering suction port of drainage pumps. Zinc chromate plated, Fed. Spec. QQZ-325A, Type 2. Teel brand.

Internal NPT	Stock No.	Retail	Each	Lots 4	Wt.
1 1/2"	1P689	\$6.15	\$4.61	\$4.31	1 1/2
2"	1P690	6.65	4.98	4.66	2 1/2
3"	1P812	10.85	8.14	7.60	3

3" HEAVY-DUTY SELF-PRIMING TRASH PUMPS

Pump Water Containing Mud, Sand, Sludge, Solids and Sewage
Two-Vane Impeller Passes Solids up to 1½" Diameter

TEEL

High Capacity—22,680 GPH at 10 ft. Head

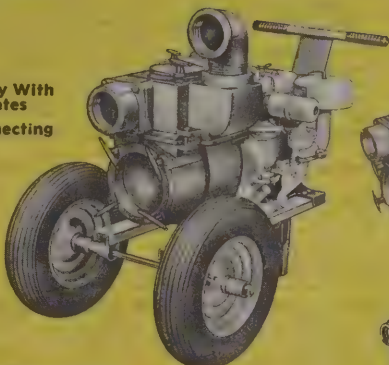
Heads up to 80 ft. at 5400 GPH

3" IPT Suction and Discharge

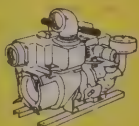
3" Suction Strainer

Heavy Duty Cast Aluminum Body With
Replaceable Cast Iron Wearplates

Can be Cleaned Without Disconnecting
Suction or Discharge Hose



Pump Head



Handle Center-Mounted
on Pump as Furnished

Engine Driven
Pump less
Wheel Kit

Pump Head Only

\$322.60

Lots 3

\$488.84

Lots 3

Wheel
Kit

\$57.26

Lots 3

Shown: No. 3P601
With No. 1P678
Wheel Kit in Place

Clog-resistant design plus fully accessible construction makes this unit excellent for difficult jobs where chunks of solid materials and semi-solid mixtures would make it otherwise impractical to pump. Self-priming to 20 ft. lift without foot valve. Two-vane impeller plus flow-through hydraulic shapes handle solids up to 1½" diameter. Specially protected mechanical seal chamber provides trouble-free seal operation without special adjustment or attention. Suction and discharge ports are completely accessible for cleanout without having to remove either hose, offers complete access to impeller inlet. In addition to normal cleanouts provided, suction and discharge are connected by intermediate manifold that can be removed to completely expose interior of pump without actually disassembling the casing. Casing is cast aluminum for light weight and portability, but the hydraulic passages both in front and in back of the cast iron impeller are protected by replaceable cast iron wearplates, held in place by stainless steel screws. Engine shaft is sealed from

liquid and protected by stainless steel shaft sleeve. Self priming recirculation port is protected from clogging by internal strainer/gasket. Pump comes with 3" suction line strainer and 3", 90° street ell. Optional wheel kit, not included, listed below. Teel brand.

Engine Driven Model. 3" heavy-duty trash pump with rugged aluminum 8 HP Briggs & Stratton engine, 4 cycle cool bore engine fitted with 4 quart fuel tank.

Pump Head Only. Unit designed for direct or belt drive. Has 1½" precision R18 sealed ball bearings mounted in cast aluminum housing for heat dissipation. Stainless steel shaft sleeve. 1½" shaft diameter with ¼" x 1½" keyway. 5¼" shaft height; mounting holes 7¼" OC; 3⅞" front to rear.

PUMP PERFORMANCE IN GPH OF WATER AT TOTAL FEET OF HEAD

Type	HP	5 ft.	10 ft.	20 ft.	30 ft.	40 ft.	50 ft.	60 ft.	70 ft.	80 ft.
Engine Driven	8	—	22,680	21,600	19,200	16,800	14,000	10,680	8,500	5,400
Pump Head { 1725* RPM	1½	10,680	8,580	1,320	—	—	—	—	—	—
With Motor { 2800# RPM	5	—	17,880	14,940	12,000	7,800	2,700	—	—	—
{ 3450† RPM	7½	—	—	21,360	19,080	16,620	14,160	10,200	4,500	2,100

(*) Use 1800 RPM motor, direct drive or belt drive.

(#) Use 3600 RPM motor, belt drive only.

(†) Use 3600 RPM motor, direct drive or belt drive.

PUMP SPECIFICATIONS AND PRICES

Type	HP	—Overall—			Suction	Discharge	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
		H	W	L							
Engine Driven	8	19"	20"	27"	3"	3"	3P601	\$735.10	\$514.57	\$488.84	130
Head Only	—	16½"	13½"	23½"	3	3	3P609	485.12	339.58	322.60	73

WHEEL MOUNT KIT FOR NO. 3P601 TRASH PUMP ABOVE

Converts pump into rugged but easily movable unit. Fully pneumatic 16" ball bearing wheels. Includes wheels, axle, front end assembly, 1 foot with bracket. Easy to assemble and

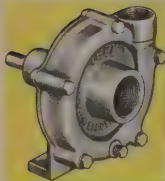
install on pump. Proper weight distribution insures that unit is secure when operating and stable when being moved. Shpg. wt. 27 lbs. No. 1P678. Retail \$86.10. Ea. \$60.27; lots 3 \$57.26

MOTORS REQUIRED TO DRIVE PUMP HEAD

Single and 3-phase, 50/60 Hz motors that will drive pump head No. 3P609 described above are listed in detail on the following MotorBook pages: 10, 18, 19, 73, 76 and 80.

SEE WARRANTY INFORMATION ON PAGE 684

TEEL BALL BEARING CENTRIFUGAL PUMPS



Cast Bronze. Up to 95 GPM. Permanently Lubricated, Sealed Ball Bearings

No. 1P796

\$40.87

Lots 3

TEEL

For direct connection to electric motor or belt drive, 3450 RPM maximum. Ball bearings are permanently lubricated and sealed for long, maintenance-free life. Stainless steel, 5/8" diameter shaft, all bronze pump case and impeller with mechanical seal. Precision built for long dependable service. For non-abrasive liquids that are compatible with the material of pump construction. Temperature range of liquid being pumped can be -20°F to +210°F. Base to shaft centerline dimension is 3 1/2". Pump rotation clockwise, as seen facing shaft end. Discharge position up only. Performance table below provides selection data for 2 to 95 GPM delivery. May be ordered separately or with proper motor as listed below. For coupling, see Index under Couplings.

OEM Prices Available On Request

PUMP PERFORMANCE — CAPACITY IN GALLONS OF WATER PER MINUTE

3450 RPM DRIVEN SPEED OF PUMP											1725 RPM DRIVEN SPEED OF PUMP										
Model	HP Req'd	—PUMP HEAD IN FEET—									Model	HP Req'd	—PUMP HEAD IN FEET—								
		5'	10'	15'	20'	30'	40'	50'	60'	70'			1'	2'	5'	7½'	10'	12½'	15'	20'	
1P796	1/3	29	26	25	23	17	12	2	—	—	1P796	1/4	14	13	12	8	6	—	—	—	
1P797	3/4	83	78	75	68	57	47	22	1	—	1P797	1/3	41	39	34	28	21	12	—	—	
1P798	1½	95	94	92	88	77	66	52	32	2	1P798	1/2	48	47	44	39	34	26	16	—	

TEEL CENTRIFUGAL PUMP PRICES AND DIMENSIONS

Ports, IPT		Shaft O.C.	Dia.	Dimensions			Stock No.	Retail	Pump Only	Lots 3 Assorted	Shpg. Wt.
Suction	Discharge			H	W	D					
3/4"	1/2"	3 1/2"	5/8"	5 1/2"	5 1/4"	6 1/2"	1P796	\$60.55	\$43.14	\$40.87	6
1"	3/4"	3 3/4"	5/8"	6 1/4"	6 1/2"	6 3/4"	1P797	83.00	59.14	56.03	9
1 1/4"	1"	3 7/8"	5/8"	6 3/4"	6 1/2"	6 3/4"	1P798	87.90	62.63	59.33	9

3450 RPM MOTORS FOR PUMPS ABOVE

All 115V, 60 Hz, Rigid Mount (*)

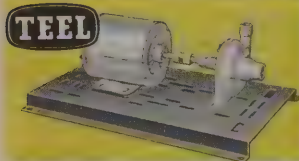
HP	Frame	Type	Stock No.	Retail	Each
1/3	48	Spl. Ph.	5K586	\$39.00	\$25.53
3/4	48	Cap.	5K684	63.75	41.74
1 1/2	66	Cap.	5K242*	129.00	84.45

1725 RPM MOTORS FOR PUMPS ABOVE

All 115V, 60 Hz, Rigid Mount

HP	Frame	Type	Stock No.	Retail	Each
1/4	48	Spl. Ph.	4K678	\$36.60	\$24.69
1/3	56	Cap.	5K443†	54.00	35.35
1/2	56	Cap.	5K450†	66.75	43.70

(*) 1 1/2 HP is 115/230V, with manual thermal protection. (†) With automatic thermal protection.



UNIVERSAL-TYPE MOUNTING BASE

\$13.00

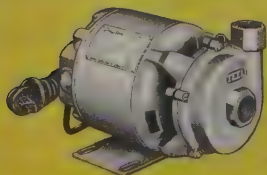
Lots 4

Drilled to fit all Teel gear and centrifugal pumps, and motors recommended to power them. Sturdy, stamped steel construction. 22 L x 15 W x 1 1/2" H bed dimensions. 17" wide overall, including 1" flange at each side. Wide combination of pre-drilled holes makes base adaptable for use with variety of direct or belt driven equipment. Additional holes can be drilled if needed. Machine gray finish. Teel brand. Shpg. wt. 16 lbs.

No. 1P675. Pump Base. Retail \$18.57. Each \$13.93; lots 4, \$13.00

1/4 HP GENERAL PURPOSE CENTRIFUGAL PUMP

Pumps Tub Water into Overhead Sewer. Corrosion-resistant Cast Aluminum Body and Impeller



\$44.47

Lots 3

TEEL

1/4 HP motor-driven Teel centrifugal pump designed for pumping laundry water from tub to overhead sewer main. Required by regulations in many areas. Easily mounted below laundry tub with motor shaft in either vertical or horizontal position. 1 1/4" NPT discharge port can be rotated in 90° steps. Suction port 1 1/4" NPT. Pump material is specially cast corrosion resistant aluminum, with precision lapped mechanical seal (carbon face with Buna N bellows), selected specifically for laundry application. Open vane aluminum impeller, designed to minimize clogging. Also suitable for other fluid transfer applications where the liquid pumped is compatible with the material of the pump construction and the mechanical seal. Pump is not self priming and has limited suction lift capabilities. Direct-connected to Dayton 1/4 HP, 1725 RPM, 115V, 60 Hz split phase motor. NEMA 56 Frame. 8 ft., SJ cord set with 3 prong grounding plug. 10 1/2" L, 6 1/2" W, 6 1/2" H. Slotted mounting holes. Shpg. wt. 16 lbs.

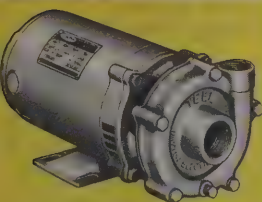
No. 1P795. Each \$46.80; lots 3.....\$44.47

CAPACITY: GALLONS PER HOUR, HEAD IN FEET

2 Ft.	4 Ft.	6 Ft.	8 Ft.	10 Ft.	12 Ft.
1400	1200	1020	800	500	Shut-Off

CLOSE-COUPLED TEEL CENTRIFUGAL PUMPS

Cast Iron or Bronze. Up to 95 Gallons Per Minute. 1/3 to 1 1/2 HP, Single or 3-Phase Motors



No. 1P831
\$72.73

Lots 3

TEEL

OEM Prices Available
Ask Your Grainger Salesman

Dependable, precision-built Teel centrifugal pumps for use in liquid transfer, recirculation and other applications where no suction lift is required. Powered by 3450 RPM, 60 Hz, single or three-phase dripproof Dayton motors, all with shielded ball bearings. Automatic overload protection on single phase models. All pumps have the Type 303 stainless steel shaft, also carbon and ceramic face Buna N mechanical seal. Will handle liquids compatible with materials of pump construction at liquid temperatures of -20°F to +210°F. Discharge port may be rotated in 90° steps. Semi-open type impeller develops limited suction lift—pump must be placed at or below level of liquid being pumped.

PUMP PERFORMANCE: GALLONS OF WATER PER MINUTE

Motor HP	—PUMP HEAD IN FEET—								
	5'	10'	15'	20'	30'	40'	50'	60'	70'
1/3	29	26	25	23	17	12	2	—	—
1/2	43	37	32	28	20	2	—	—	—
3/4	83	78	75	68	57	47	22	1	—
1	89	86	83	76	67	54	37	16	—
1½	95	94	92	88	77	66	52	32	—

CAST IRON CLOSE-COUPLED PUMP DATA AND PRICES

HP	Motor Type	Volts 60 Hz	Inlet	Outlet	—Dimensions—			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
					High	Wide	Long					
1/3	Split Phase	115	3/4"	1/2"	6"	6 1/2"	12 1/2"	1P831	\$107.75	\$76.77	\$72.73	18
1/2	Capacitor	115/230	1	3/4"	6 1/4"	6 3/4"	12 1/2"	1P832	120.91	86.15	81.61	24
1/4	Capacitor	115/208-230	1	3/4"	6 1/4"	6 3/4"	13 1/4"	1P833	132.91	94.70	89.71	27 1/2
1	Capacitor	115/208-230	1 1/4"	1"	8 1/4"	6 3/4"	14"	1P834	144.12	102.69	97.28	31
1 1/2	Capacitor	115/208-230	1 1/4"	1"	6 1/4"	6 3/4"	14"	1P835	182.32	129.90	123.07	35
1/4	3-Phase	208-220/440	1	3/4"	6 1/4"	6 3/4"	13 1/4"	1P836	133.85	95.37	90.35	28 3/4
1 1/2	3-Phase	208-220/440	1 1/4"	1"	6 1/4"	6 3/4"	14"	1P837	180.54	128.63	121.86	36 1/2

BRONZE CLOSE-COUPLED PUMP DATA AND PRICES

HP	Motor Type	Volts 60 Hz	Inlet	Outlet	High	Wide	Long	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/3	Split Phase	115	3/4"	1/2"	6"	6 1/2"	12 1/2"	1P787	\$132.05	\$94.09	\$89.13	23
1/2	Capacitor	115/230	1	3/4"	6 1/4"	6 3/4"	12 1/2"	1P788	149.85	106.77	101.15	25
1/4	Capacitor	115/208-230	1	3/4"	6 1/4"	6 3/4"	13 1/4"	1P789	161.85	115.32	109.25	29
1	Capacitor	115/208-230	1 1/4"	1"	8 1/4"	6 3/4"	14"	1P790	172.84	123.15	116.67	32
1 1/2	Capacitor	115/208-230	1 1/4"	1"	6 1/4"	6 3/4"	14"	1P791	211.11	150.42	142.50	37
1/4	3-Phase	208-220/440	1	3/4"	6 1/4"	6 3/4"	13 1/4"	1P792	162.79	115.99	109.88	30
1 1/2	3-Phase	208-220/440	1 1/4"	1"	6 1/4"	6 3/4"	14"	1P793	209.46	149.24	141.39	37

GENERAL PURPOSE CENTRIFUGAL PUMPS

Direct Drive or Pulley Driven Open Impeller. Rustproof Construction

For gravity-fed, liquid transfer applications, recirculating systems, pressure-boosting and irrigation. Single-stage, open impeller. Can be direct or pulley driven at 1725 or 3450 RPM. Pumps have 1/2" diameter stainless steel shaft, 3" shaft height.

No. 1P533 has 1" suction and 3/4" discharge ports, sleeve bearings and is 5 W x 7 H x 5 1/2" D. No. 1P534 has 1 1/4" suction port for plastic pipe or hose. Discharge is adjustable for 1" plastic pipe or hose (use adapter for threaded pipe). Permanently sealed greased ball bearings absorb radial and thrust loads. 5 W x 6 3/4" H x 5" D.

When ordered with motor, base, and coupling No. 7P018 & 7P019, motors are 1/4 HP, 1725 RPM, 115V, 60 Hz, split phase and are packed in a separate carton. Labawco brand. 19 1/2 lbs.

\$13.08

Lots 3
No. 1P534



Pump No. 1P533 With Motor, Base & Coupling
No. 7P018. Pump No. 1P533 with Motor, Base and Coupling. Each \$37.47; lots 3.....\$35.04

Pump No. 1P534 With Motor, Base & Coupling
No. 7P019. Pump No. 1P534 with Motor, Base and Coupling. Each \$42.77; lots 3.....\$39.93

Pump Head Only
No. 1P533. Pump Head Only, wt. 2 3/4 lbs. Each \$8.87; lots 3.....\$8.19

Pump Head Only
No. 1P534. Pump Head Only, wt. 3 3/4 lbs. Each \$14.17; lots 3.....\$13.08

Pump Base Only
No. 1P535. Pump Base. Shpg. wt. 2 1/2 lbs. Each \$3.45; lots 3.....\$3.18

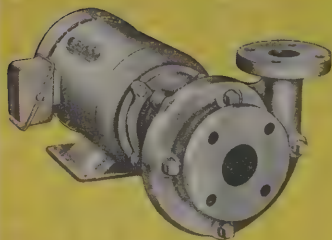
PUMP PERFORMANCE

GALLONS PER MINUTE, FEET OF HEAD									
Stock No.	RPM	HP	5'	10'	15'	20'	30'		
P533	1725	1/4	14	6	—	—	—		
	3450	3/4	35	33	30	27	18		
P534	1725	1/4	31	24	8	—	—		
	3450	1	62	55	45	37	25		

SEE WARRANTY INFORMATION ON PAGE 684

1 1/2" CLOSE COUPLED TEEL CENTRIFUGAL PUMPS

1 1/2 x 2" Flange or NPT Threaded Connections. Deliver up to 200 GPM
2 to 5 HP Dayton 3-Phase, 3600 RPM, 230/460 Volts, 60 Hz, NEMA JM Frame Motors

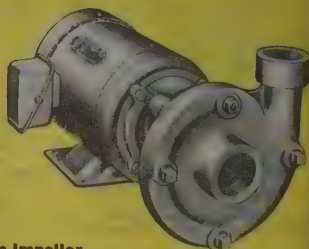


1 1/2 x 2" FLANGE
CONNECTION



No. 3P604
\$267.94
Lots 3

- Cast Iron Casing
- Dual Volute
- Bronze Semi-open Impeller
- Full Axial & Radial Balance



1 1/2 x 2" NPT
CONNECTION

Industrial duty close coupled centrifugal pumps are suited for liquid transfer, heating and cooling recirculation and other industrial applications where water pressure may reach up to 100 psi under booster service. Pumps have cast iron casing with full dual volute for radial hydraulic balance and clog resistant semi-open bronze impeller with ring fit for axial hydraulic balance. Stainless steel and Buna N mechanical face seal mounted in oversize peripheral circulation chamber gives extended seal life. Pumps are non-self priming, require either foot valve or flooded suction. Units will handle water temperatures from 40°F to 160°F. Discharge position

can be adjusted in 90° increments with vent and drain plugs for all positions. Shaft protected with 304 stainless steel sleeve. Impeller keyed to motor shaft.

Nos. 3P604, 3P606, 3P608—2" suction, 1 1/2" discharge NPT threaded connection. Pumps are close coupled to 2, 3 or 5 HP totally enclosed fan cooled Dayton 3600 RPM NEMA JM frame, 3-phase, 230/460 volts, 60 Hz motors.

Nos. 3P605, 3P607—2" suction, 1 1/2" discharge flange connection. Pumps are close coupled to 3 or 5 HP totally enclosed fan cooled Dayton 3600 RPM NEMA JM frame, 3-phase, 230/460 volts, 60 Hz motors.

PUMP PERFORMANCE IN GPM OF WATER AT TOTAL FEET OF HEAD

HP	Stock No.	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'
2	3P604	170	150	130	100	65	25	—	—	—	—	—
3	3P605, 3P606	—	—	165	145	125	95	60	15	—	—	—
5	3P607, 3P608	—	—	—	—	200	185	165	145	120	90	50

SPECIFICATIONS AND PRICES—CLOSE COUPLED PUMPS

HP & Connection	Suction	Discharge	H	Dimensions W L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
2 HP NPT	2"	1 1/2"	8 1/4"	10 1/2" 18 1/4"	3P604	\$377.39	\$283.04	\$267.94	75
3 HP Flange	2	1 1/2	9 1/4	13 1/4 20 3/8	3P605	425.13	318.84	301.84	92
3 HP NPT	2	1 1/2	9 1/4	12 20 3/8	3P606	413.31	309.98	293.45	90
5 HP Flange	2	1 1/2	9 1/4	13 1/4 22	3P607	475.79	356.84	337.81	120
5 HP NPT	2	1 1/2	9 1/4	12 22	3P608	463.71	347.78	329.23	118

SUMP PUMP MOTOR WITH WEIGHT SWITCH

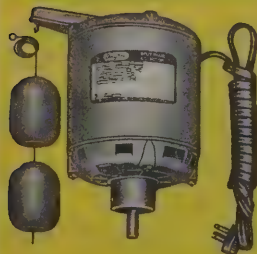
1/3 HP, 1725 RPM, 115V, 60 Hz. Automatic Thermal Protection
Complete With Weights, 8 Ft. Cord Set



\$28.63

Built for use on sump pumps and cellar drainers. Weight type switch and 8 ft., 3-conductor cord set mounted on motor. 1/3 HP, split phase, 1725 RPM, 115V, 60 Hz, 5.7 full-load amps. Sump pump hub for mounting on 1 1/2" OD column. Sleeve bearings, 40°C ambient, 1.0 service factor, Class B insulation (70°C rise), continuous duty. Open, drip-proof construction, with motor shell and top end shield enclosed. Automatic reset thermal protection. NEMA 48K frame. 1/4" dia. x 1 1/4" long shaft with flat. Rotation easily reversed by electrical reconnection. Weights and steel cord for switch supplied with motor. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Blue finish. Dayton brand. Shpg. wt. 14 lbs.

No. 6K713. Retail \$43.73. Each **\$28.63**

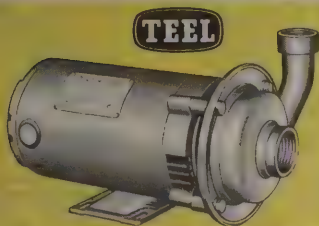


Grainger's In-Stock Supply Service Helps You Sell More and Net Larger Profits

NET WHOLESALE PRICES—W.W.GRAINGER, INC.

1/3 to 1 1/2 HP CENTRIFUGAL PUMPS FOR CHEMICALS

No. 304, Stainless Steel Body. Buna N Mechanical Seal. Up to 135 GPM Output



\$121.58 Widely used for liquid transfer, liquid recirculation and other applications where there is positive pressure at the pump suction. Warning: Do not use to pump flammable fluids such as gasoline, fuel oil, kerosene, etc. Pump is direct-connected to 3450 RPM, 60 Hz ball bearing motor. Single phase models have automatic thermal overload protection. Designed for continuous operation in clear and non-abrasive fluids that are compatible with type 304 stainless steel body, impeller and shaft with carbon and ceramic face Buna N mechanical seal. Maximum temperature for liquid being pumped is 180°F. Closed and semi-open impellers develop only a limited suction lift; liquid being pumped should be level with or higher than the top of the pump case. No. 1P700 has 8 ft. 3 conductor cord set. Other pump motors require direct electrical connections.

PERFORMANCE DATA: GALLONS PER MINUTE, HEAD IN FEET

HP	Stock No.	0'	5'	10'	15'	20'	30'	40'	50'	60'	Impeller Type	Motor Mounting Holes
1/3	1P700	25	19	15	11	5	—	—	—	—	Semi-Open	3x4 1/2
1/2	1P799	25	25	21	20	16	5	—	—	—	Semi-Open	3x4 1/2
3/4	1P701, 1P801	65	63	57	55	52	43	35	23	5	Closed	3x4 1/2
1	1P800, 1P802	100	95	90	85	75	60	31	28	5	Closed	3x4 1/2
1 1/2	1P702, 1P803	135	127	120	112	104	87	67	41	5	Closed	3x4 1/2

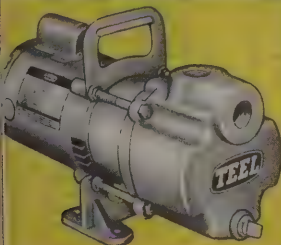
CENTRIFUGAL CHEMICAL PUMP SPECIFICATIONS AND PRICES

Motor HP	Type Motor	Volts 60 Hz	Inlet NPT	Outlet NPT	—Dimensions—			Stock No.	Retail	Each	Lots 3	Shpg. Wgt.
1/3	Split	115	1/2"	1/2"	7"	7 1/2"	13"	1P700	\$173.69	\$130.27	\$121.58	18
1/2	Capacitor	115/230	1/2"	1/2"	7"	7 1/2"	13"	1P799	193.70	145.28	135.59	20
3/4	Capacitor	115/230	1 1/4"	1 1/4"	8"	9 1/4"	12 1/4"	1P701	259.48	194.61	181.64	24
1	Capacitor	115/230	1 1/2"	1 1/2"	8 1/2"	9 1/2"	13 1/2"	1P800	274.47	205.85	192.13	28
1 1/2	Capacitor	115/230	1 3/4"	1 3/4"	8"	9 1/4"	13 1/2"	1P702	304.85	228.64	213.40	34
3/4*	3-Phase	220/440	1 1/4"	1 1/4"	8"	9 1/4"	12 1/4"	1P801	275.56	206.67	192.89	26
1*	3-Phase	220/440	1 1/2"	1 1/2"	8"	9 1/4"	12 1/4"	1P802	289.90	217.43	202.93	28
1 1/2*	3-Phase	220/440	1 3/4"	1 3/4"	8"	9 1/4"	13 1/2"	1P803	374.78	281.09	262.35	34

*Totally enclosed, fan-cooled motor.

1/3 HP TEEL PERCHLORETHYLENE TRANSFER PUMP

Up to 31 GPM. Self-Priming Centrifugal Type. 1 x 1" NPT. Sleeve/Ball Bearing Motor. 115V, 60 Hz



\$88.42 Lightweight, self-priming centrifugal Teel pump for transferring perchlorethylene (and other non-flammable solvents) from drums or storage tanks. Warning: Do not use to pump flammable fluids such as gasoline, fuel oil, kerosene, etc. Pump will lift liquid a maximum of 10 ft. without a foot valve; faster prime will be obtained by using No. 4X568 foot valve (not included) at the end of the suction line. 1" NPT inlet and outlet. Cast aluminum body pumps, with Viton mechanical seal and gasket, for longer life and handling greater variety of liquids other than perchlorethylene. Pumps should ONLY be used with liquids compatible with pump construction materials. Direct connected to 1/3 HP, 3450 RPM, 115V, 60 Hz Dayton motor with ball bearings at shaft end, sleeve bearings at switch end, and automatic reset thermal protection. 8 ft., 3 conductor cord. 5 3/4" wide, 6 3/4" high, 13 1/4" long. Shipping weight 25 lbs.

No. 1P862. Retail \$124.10. Each \$93.07; lots 3.....\$88.42

GALLONS PER MINUTE OF WATER

TOTAL HEAD* ft	PSI	GALLONS PER MINUTE (Water)	PSI based on specific gravity of water: 1.0
0	31		Maximum suction lift without a foot valve is 10 feet; for greater suction lift and faster prime, use No. 4X568 Foot Valve. See Index under Foot Valves.
2	29		
4.3	26		
6.5	22.5		
8.6	19		
10.8	14		
13.0	6.5		
14.0	0		

GALS. PER MIN. OF PERCHLORETHYLENE

TOTAL HEAD* Feet	PSI	GALLONS PER MINUTE (Perchlorethylene)	PSI based on specific gravity of perchlorethylene: 1.6
0	31		Maximum suction lift without a foot valve is 10 feet; for greater suction lift and faster prime, use No. 4X568 Foot Valve. See Index under Foot Valves.
5	3.45	29	
10	6.9	26	
15	10.35	22.5	
20	13.8	19	
25	17.25	14	
30	20.7	6.5	
32.5	22.5	0	

Total head represents total discharge head in feet plus total suction lift in feet plus friction loss for 1" pipe.

SEE WARRANTY INFORMATION ON PAGE 684

489

MAGNETIC-DRIVE CHEMICAL SOLUTION PUMPS

For Temp. to 180°F. Fan-Cooled 115V Motor

Handle fruit juices, liquid foods, photographic and plating solutions, mild acids and alkalis, salt solutions and solvents up to 180°F. Can also be used for evaporative condensers, vending equipment, advertising displays, and liquid type office copiers. Outstanding for sanitary applications; no possibility of contamination through leaking shaft seals. Pumps are gravity-feed type and inlet must be lower than liquid level.

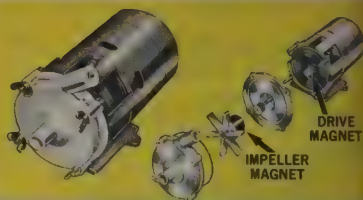
TEEL

\$32.80

Orbital magnetic drive design has no interconnecting shaft and seal, eliminating seal-caused friction loss, wear, leakage and contamination. Powerful ceramic ring magnet encircles impeller magnet and floats impeller free of center pin when operating. Non-slipping magnet develops as much as 50% greater torque than motor running torque.

Driven by a heavy-duty, fan-cooled, 1/30 or 1/20 HP, 115V, 60 Hz motor with automatic reset thermal protection. May be operated on 115V, 50 Hz, at about 20% lower capacity. Motor set on anvil-type bracket to keep motor heat away from liquid being pumped.

Pump head, impeller, and impeller base plate are of glass-filled polypropylene. Pump has stainless steel shaft and can withstand up to 180°F with minimum moisture absorption. Pumps are easily dismantled for cleaning, without tools, and all parts are field replaceable. Buna N "O" ring gasket. Pumps have 3 ft., 3-conductor SJO cord.



MAGNETIC DRIVE PUMP PERFORMANCES

Stock No.	Water Delivery, GPH					Max. Head	Max. PSI
	1 Ft.	3 Ft.	6 Ft.	9 Ft.	12 Ft.		
1P676	330	240	90	—	—	7 ft.	3.1
1P677	400	360	320	250	175	16 ft.	7

NOTE ON MILD CHEMICAL USES:

These pumps are generally suitable for use with mild chemicals (where solution will not etch), acids, alkalis or salt solutions up to 180°F, and pH Factor of no less than 5 or greater than 9. However, when used with liquids other than water, factory warranty must be extended by application. Write or call nearest Grainger location for Pump Application Form No. 551763. Complete and return form, indicating chemical type, concentration, temperature, pH factor, pump use, etc. for warranty validation.

GPH	—Motor—		Volts 60 Hz	Inlet & Outlet	—Dimensions—			Stock No.	Retail	Each	Lots 6	Shpg. Wt.
	RPM	HP			H	W	D					
300	1500	1/30	115	5/8" OD	5"	3 3/4"	7 1/4"	1P676	\$50.46	\$35.32	\$32.80	5
400	3000	1/20	115	5/8" OD	5	3 3/4"	7 3/4"	1P677	53.97	37.78	35.08	5



420 GPH, 1/20 HP COOLANT PUMP

All Brass and Bronze Body
1/20 HP Enclosed Motor
For Heavy-Duty Pump Jobs

\$34.09

A coolant and recirculating type pump used in industrial and commercial applications where a higher pressure, heavy-duty pump is required. Pump delivers 420 GPH at 1 ft. head. Heavy-duty Dayton 1/20 HP totally-enclosed fan-cooled, 115V, 60 Hz motor with long-life oiling. Brass tube. Bronze base and impeller. 12 1/2" high. 3/4" FPT outlet. 12" 3-cond. cords are 18 ga. SJ type. Wt. 8 1/2 lbs.

Outlet Pipe	Delivery, Gallons Per Hour			Head in Feet		
	1-ft.	3-ft.	5-ft.	8-ft.	10-ft.	11-ft.
3/4" ID	420	385	330	215	105	0
1 1/2" ID	300	250	200	120	60	0
3/4" ID	240	190	130	95	25	0

420 GPH PUMP PRICES

Volts 60 Hz	12" Cords	Stock No.	Retail	Each	Lots 4
115	3-Cond.	1P295	\$51.27	\$35.89	\$34.09
230	3-Cond.	1P630	51.61	36.13	34.32

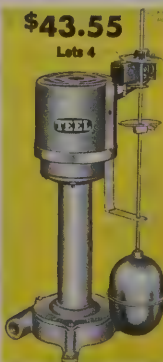
Use Fast Grainger Supply Service
Large Stock Maintained Near You

HEAVY-DUTY DRAIN PUMP

420 GPH Pump with Automatic Float Switch

\$43.55

Lots 4



Easily adaptable as a sump pump, bilge pump, condensate disposal pump, etc. Float operated on-off switch.

Delivers 420 GPH at 1-ft. head, 215 GPH at 8-ft. head. Brass tube, bronze impeller and base. Powered by 1/20 HP totally-enclosed fan-cooled 115V, 60 Hz Dayton motor.

Floater, micro-switch and bracket are packed separately with instruction sheet. Metal parts are of rust-proof materials. 10 amp micro-switch. Designed for easy assembly. 8-ft. cord set. 14" high. 3/4" FPT. Teel brand. Shpg. wt. 9 lbs.

No. 7P008. Teel Automatic Drain Pump. Retail \$65.82. Each \$46.08; lots 4...**\$43.55**

ORDER BY PHONE—YOU SAVE TIME



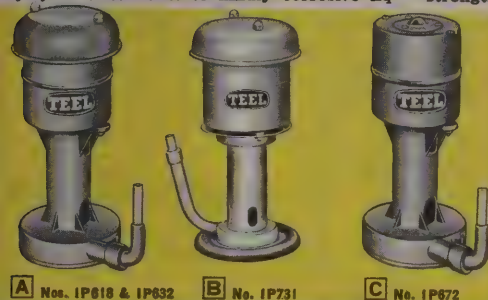
You can often save days by phoning in your orders. Your Grainger sales staff can generally ship same day if called before 3:00 P.M. They will cooperate in every way possible to get items to you when you need them. Give us a call—put Grainger service to work for you.

COOLANT and RECIRCULATING PUMPS

1/70 to 1/100 HP, 115 and 230V, 60 Hz. Capacities up to 370 GPH

For evaporative coolers, coolants, laboratories, fountains, and bilge pumping. Constructed of brass or precision-molded high impact-strength polystyrene. Resistant to mildly corrosive liquids,

such as alkali, salt water, etc. Adaptable discharge ports ($\frac{3}{8}$ " and $\frac{1}{2}$ " OD). Two-vane impellers mounted on brass impeller shafts for strength. 3-foot, 3-conductor, 18-ga. SJ cords.



A Nos. 1P618 & 1P632

B No. 1P731

C No. 1P672

No. 1P618. 1/70 HP, 115V, 60 Hz, fan-cooled motor. Polystyrene construction. $8\frac{3}{4}$ " H. Removable bottom plate.

No. 1P632. 1/70 HP, 230V, 60 Hz, fan-cooled motor. Polystyrene construction. $8\frac{3}{4}$ " H. Removable bottom plate.

No. 1P731. 1/70 HP, 115V, 60 Hz, 3000 RPM motor. Solid brass body. Rust resistant. $8\frac{1}{2}$ " high.

No. 1P672. 1/100 HP, 115V, 60 Hz, 3000 RPM, totally enclosed motor. Thermal protection. Has 4-ft. 3-conductor, 18 ga. SJ cord, with 3-prong molded plug. Meets safety requirements of Los Angeles City Code. Removable bottom plate. $8\frac{3}{4}$ " high. Polystyrene construction.

PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

Fig.	Stock No.	1 ft.	4 ft.	6 ft.	8 ft.	10 ft.	Shut-Off
A	1P618	370	250	170	95	30	—
A	1P632	370	250	170	95	30	—
B	1P731	320	230	165	90	—	10.8 ft.
C	1P672	275	205	140	80	—	9.5 ft.

PUMP PRICES AND DATA

Fig.	Volts 60 Hz	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
A	115	1P618	\$20.40	\$13.26	\$12.24	3
A	230	1P632	20.46	13.30	12.28	2 1/2
B	115	1P731	25.66	16.68	15.40	3
C	115	1P672	23.57	15.32	14.14	3

370 GPH DRAIN PUMP KIT

With Automatic Switch and 100 ft. Tubing for Fountains, Condensates, Dehumidifiers, Etc.

\$24.85

Lots 4

TEEL



Complete, low-cost automatic drain pump unit for fountains, crawl space drainage, condensate disposal, air conditioners, dehumidifiers, etc. Pump of high-impact polystyrene (except motor), highly resistant to corrosive effects of salt water, alkali, etc. Delivers 370 GPH at 1-ft. head; 30 GPH at 10-ft. head. Two-vane impeller. 1/70

P, 115V, 60 Hz fan-cooled motor with long-life bearings. Pump is operated by automatic float and 10 amp. on-off Micro switch. 8 ft. 18/3 cord set. Float has spring-mounted actuator discs easily adjusted to a wide differential in pumping cycle. 11" aluminum mounting bracket with stainless steel motor clamp. Copper float. Comes with 100 ft. $\frac{3}{8}$ " O.D. plastic tubing. Shipped unassembled. Wt. 7 lbs.

No. 7P022. Automatic 370 GPH Drain Pump Kit. Retail \$39.45. Each \$26.83; lots 4.....\$24.85

Submersible Pumps Up to 900 GPH

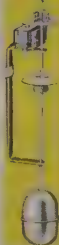
Carrying stocks 15 kinds of submersible pumps for evaporative coolers, fountains, coolants, average dispensers, etc. 170 to 900 GPH units all made of non-corrosive materials. Pumps operate fully submerged or in open air. See index under Pumps.

AUTOMATIC FLOAT SWITCH

For Coolant and Recirculating Pumps

\$9.45

Lots 6



Converts any coolant and recirculating pump in this book (and similar pumps) into an automatic sump or drain pump. Quickly installed, easily adjusted. Has genuine Micro switch, 10 amp, 120/240V, AC; 5 amp, 6 to 12V, DC with 8-ft. 18/3 cord set with plug and stripped leads for easy connection to motor. Spring-mounted aluminum actuator discs easily adjusted for wide differential in pumping cycle. 11" aluminum bracket with adjustable stainless steel clamp for $3\frac{1}{16}$ to 4" dia. motors. 11 $\frac{3}{8}$ " long by $\frac{3}{32}$ " dia. brass float rod. Copper float. Assembled unit is 14 $\frac{1}{2}$ " H x 3" W x 2 $\frac{1}{2}$ " D. Teel brand. Shpg. wt. 1 lb.

No. 1P504. Retail \$14.55. Ea. \$10.19; lots 6, \$9.45

WATER TRANSFER HOSE

Vinyl and Rubber Types. Reinforced Jackets

Vinyl hose has green jacket reinforced with nylon tire cord; flexible at 0°F. 5/8" rubber hose has green jacket reinforced with Tyrex tire cord. 3/4 and 1" rubber hose have black cover, two layers of Tyrex cord. 5/8" rubber hot water hose has red jacket plus hot water tube reinforced with truck tire cord. Brass couplings.

ID	Type	Length	PSI	Stk. No.	Each	Lots 3	Wt.
5/8"	Vinyl	50 ft.	100	1P648	\$9.19	\$8.59	8
5/8"	Vinyl	75	100	1P863	12.25	11.14	12
3/4"	Vinyl	50	100	1P755	14.57	13.41	14
5/8"	Rubber	50	125	1P649	11.45	10.59	10
3/4"	Rubber	50	150	1P850	22.81	21.00	18
1"	Rubber	50	175	1P865	38.16	35.23	20
5/8"	Rubber*	50	150	1P884	17.06	15.75	12

(*) For hot water up to 160°F.

TEEL MARINE & CAMPER 12V DC PUMP

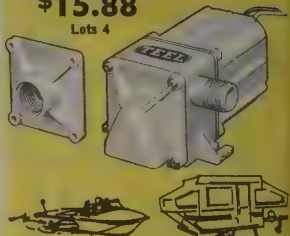
Operates in Open Air or Submerged. Use as Bilge or Water Supply Pump
Up to 400 GPH, Low 1.5 Amp Draw. Plastic and Stainless Steel Construction

Compact 12 volt DC centrifugal pump for use in boats, camper-trailers, etc., as bilge or water system pump. Low-profile design—just 2" high. May be mounted in any position, submerged or in open air, as long as inlet is at or below level of liquid pumped. Fits in tight, out-of-the-way places—beneath deck boards, along engine stringers, in or adjacent to fresh or salt water bait tanks, etc. Large capacity—pumps up to 400 GPH, yet draws only 1.0 to 1.5 amps at 12 volts DC, the higher the back pressure, the lower the current draw. For water up to 160°F. Made of Food & Drug Administration (FDA) and National Sanitation Foundation (NSF) approved high-impact plastic and stainless steel.

Comes complete with hooded, screened inlet for bilge pumping and alternate 1/2" female NPT threaded inlet plate for water system use. 5 ft. cord set. Outlet has 3/8" male pipe fitting and accepts 3/8" ID hose. Nominal size 2 x 2 x 5 1/2", plus outlet and mounting feet; 1/4" mounting slots, 2 7/8" OC. Teel brand. Shpg. wt. 1 lb. In display carton.

\$15.88

Lots 4

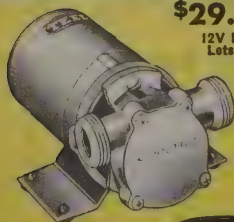


MARINE/CAMPER PUMP PERFORMANCE AND PRICES

GPH of Water at Total Head					Port Sizes		Stock No.	Retail	Each	Lots 4
1 Ft.	3 Ft.	5 Ft.	8 Ft.	11 Ft.	Inlet Port	Outlet Port				
400	260	210	115	Shut Off	Hooded or 1/2" FPT	3/8" NPT or 3/4" Hose	1P811	\$23.90	\$16.72	\$15.88

COMPACT SELF-PRIMING MARINE-UTILITY PUMPS

Has Oil-Resistant, Buna N Impeller. 115 & 12-Volt Models. Chrome Brass Body



\$29.47

12V DC
Lots 4

TEEL

Widely used compact pumps for marine, and general commercial and industrial applications. Excellent as bilge pumps, for live bait tanks, dewatering, food processing, liquid transfer pump, etc. All units self-prime to 10 ft.

Chrome plated brass pump body with stainless steel shaft. Buna N impellers and lip-type seals. AC-DC series motors with external brush holders. Motor on No. 1P579 is fan-cooled. Dual threaded inlet and outlet; 3/8" ID NPT, and 3/4" OD hose thread. Water temperature range 40°F-140°F. Overall, 6 1/4" L x 3 1/2" H x 4" W. Not recommended for use with flammable, explosive, or combustible liquids, or soap detergents.

PERFORMANCE IN GPH AT TOTAL FEET OF HEAD

Stock No.	1 ft.	5 ft.	10 ft.	15 ft.	20 ft.	30 ft.	40 ft.	45 ft.
1P579	350	340	320	300	285	220	140	Shut-Off
1P580	300	280	265	250	195	115	Shut-Off	—

Motor	Motor Feature	Motor Amps	Cord Set	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
115V AC/DC	Thermal Protection	1.3	6 ft. 3-Cond.	1P579	\$50.30	\$35.22	\$33.46	5
12V DC	Battery Powered	7.0	Two 10' Leads	1P580	44.30	31.02	29.47	4

IMPELLERS FOR SELF-PRIMING PUMPS

Fits Pump	Stock No.	Retail	Each	Lots 12	Wt.
1P579	1P595	\$2.40	\$1.68	\$1.56	6 oz.
1P580	1P596	2.50	1.75	1.63	6 oz.

Pumps and Pump Accessories

Large Stocks Maintained at Grainger's
For Fast Pick-ups & Shipping Service

1, 2 & 4-HOUR CYCLE TIME SWITCHES

Provides up to 60 On-Off or Off-On Operations Every Cycle



Dayton

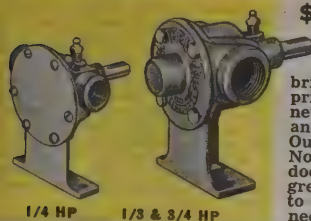
\$19.76

Controls spraying and fogging equipment, coolers, automatic feeders, process equipment, ventilating systems, pumps and motors. Single pole, double throw switch in action. Provides up to 120 tripper slots in equal increments. Cycle repeats every 1, 2 or 4 hrs. Sixty tripper included. Extra trippers available if required, (No. 2E132). Tripper mounts on face of dial perpendicular to face of dial for maximum accuracy. Rated 20 amps per pole inductive, 1/2 HP, 2500 watts per pole tungsten. 125VAC, 60 Hz. Drawn steel hammer-tone gray case with hasp for seal or lock. 7 3/4" H, 5 W, 3" D. UL and CSA listed. Shpg. wt. 3 lbs.

Cycle Range	Time Per Tripper	Stock No.	Retail	Each
1 Hour	30 Sec.	2E357	\$43.00	\$19.7
2 Hour	1 Min.	2E408	43.00	19.7
4 Hour	2 Min.	2E131	43.00	19.7

SELF-PRIMING TEEL FLEXIBLE IMPELLER PUMPS

1/4 to 3/4 HP, for Medium Pressure Applications. Bronze Body, Bronze Shaft Bearing



1/4 HP 1/3 & 3/4 HP

\$25.99

No. 1P816
Lots 3

Teel flexible impeller pumps suitable for handling liquids compatible with neoprene impeller, bronze body, Buna N lip seal, chrome plated shaft. These self priming pumps are excellent for intermittent service in fluid transfer, filter systems, spraying, brine, chemical injection, plus lawn and garden work. Will self prime up to 15 feet when the impeller is wet. . . pump should never be run dry. When foot valve is used and the suction line and pump filled, the flexible impeller pump will lift up to 20 feet. Outboard bearing on 1/4 HP, No. 1P816, not required. 1/3 HP, No. 1P817, and 3/4 HP, No. 1P818, have graphite bushing which does not require lubrication. Shaft bearing on all is bronze, grease lubricated through a zerk fitting with grease reservoir to allow long lubrication intervals. Pumps can be directly connected to or belt-driven by capacitor-start electric motor. Pump shaft heights are identical to NEMA motor standard; 48 frame No. 1P816 & 1P817, 56 frame, No. 1P818. If pulley drive is required, ball bearing pillow block is recommended. Max. temp. of liquid being pumped is 120°F. Note: pumps are supplied with neoprene impeller. When using pump for pumping light fuel oils, or other liquids not compatible with neoprene, replace with nitrile impeller listed below.

GPH @ Pump Head in Feet (1725 RPM)

HP	Stk. No.	10'	20'	30'	40'	50'	60'
1/4	1P816	300	270	233	187	142	82
1/3	1P817	600	540	458	373	270	165
3/4	1P818	990	945	810	675	540	330

TEEL FLEXIBLE IMPELLER PUMP DIMENSIONS AND PRICES

HP	Suc. & Disch.	Shaft Dia.	Shaft Ht. OC	Overall H	Overall W	Overall L	Mtg. Holes OC	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/4	1 1/2"	1 1/2"	3"	4 1/2"	3 1/2"	4 1/2"	2 1/2"	1P816	\$38.50	\$27.43	\$25.99	2
1/3	1 3/4"	1 3/4"	3"	4 1/2"	4 1/2"	5"	2 1/2"	1P817	47.45	33.81	32.03	3
3/4	1"	1 1/2"	3 1/2"	5 1/2"	4 1/2"	6 3/8"	2 3/4"	1P818	67.70	48.24	45.70	4

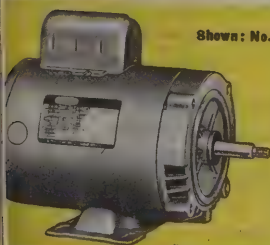
REPLACEMENT IMPELLERS TO FIT TEEL PUMPS ABOVE

To Fit Pump	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
P816	1R215	\$6.55	\$4.66	\$4.42	4 oz.
P817	1R216	8.79	6.26	5.93	5 oz.
P818	1R217	12.18	8.68	8.22	3 oz.

To Fit Pump	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1P816	1R218	\$8.36	\$5.96	\$5.64	4 oz.
1P817	1R219	9.08	6.46	6.13	5 oz.
1P818	1R220	12.74	9.07	8.60	6 oz.

BASE-MOUNTED JET PUMP MOTORS

to 1 1/2 HP, 3450 RPM, 60 Hz*, Split Phase, Capacitor and 3-Phase Types. NEMA 56J Face, Rigid Base Threaded Shafts. Automatic Reset Thermal Protection on Split Phase and Capacitor Models



Shown: No. 6K580

Dayton

\$34.76

No. 6K578

Designed for use on jet pump water systems, centrifugal pumps and other high-speed applications that require NEMA 56J face and rigid base mounting. Threaded shaft is of No. 303 stainless steel, 5/8" dia. x 2 3/8" long. Threaded part 1 1/8" long with 7/16"-20 UNF 2A R.H. thread. Open dripproof construction. 40°C ambient, continuous-duty. Class B insulation on all models except those marked (†), which have Class A. Split phase and capacitor models have built-in automatic reset thermal protection. Shielded ball bearings on both ends. Split phase and capacitor models are wired for CCW rotation facing shaft and are non-reversible. 3-Phase models must be wired in the field for CCW rotation facing shaft. Base mounting holes are 4 7/8" x 3". Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

Motor Type	RPM	Volts 60 Hz	°C Rise	Service Factor	Thermal Protection	Shaft Height	Low Volt Amps	Stock No.	Retail	Each	Shpg. Wt.
Split Phase	3450	115	60°	1.75	Auto	3 1/2"	7.0	6K578	\$53.10	\$34.76	15
Capacitor	3450	115/208-230	60°	1.60	Auto	3 1/2"	7.8	6K580	63.45	41.54	17
Capacitor	3450	115/208-230	60°	1.50	Auto	3 1/2"	11.2	6K581	73.80	48.31	21
3-Phase	3450	208-220/440*	60°	1.50	—	3 1/2"	3.4	3N088†	75.00	49.10	22
Capacitor	3450	115/208-230	60°	1.40	Auto	3 1/2"	14.4	6K582	82.50	54.01	23
Capacitor	3450	115/208-230	50°	1.00	Auto	3 1/2"	17.6	6K516†	116.63	76.35	29
3-Phase	3450	208-220/440*	40°	1.30	—	3 1/2"	4.4	3N090†	115.50	75.61	28

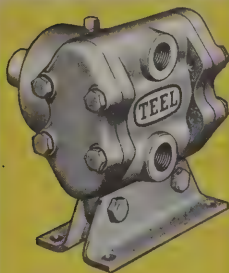
Phase motors also operable on 50 Hz, 220/440V; 50°C rise, continuous duty, at 5/6 of the 60 Hz speed. Class A insulation, all others Class B.

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

SEE WARRANTY INFORMATION ON PAGE 684

2 & 3 GPM CAST IRON HIGH PRESSURE SPRAY PUMP

500 PSI Maximum. Mounts on 5/8" Motor Shaft. Oil Bath Lubrication



Widely used in portable sprayers and cleaners for car washing, industrial cleaning, spraying most agricultural insecticides, herbicides, etc.

TEEL
\$63.86

Lots 4
Recommended for pay-operated spray type car wash systems because of continuous severe use required in such installations. Output is almost directly proportional to speed, and is affected only slightly by pressure. Operable at 1725 RPM with pressures up to 500 PSI. Has 5/8" ID hollow shaft for direct connection to motor. 3 1/2" shaft height matches NEMA 56 frame motors. Oil bath lubrication system for less frequent servicing. 1/2" ID front ports.

Dense cast-iron body. Hardened, spring-loaded stainless steel valves are easily serviced without removing pump from base. Replaceable cylinder sleeves of Ni-Resist material which is especially impervious to detergents. Precision crank bearing designed to meet maximum pump loadings. Check valves at each end of the housing direct flow from inlet to outlet ports. 5 1/2 H, 5 W, 5" L. Teel brand.

A relief valve or unloader valve is recommended to extend pump life and efficiency; see listings below.

6-Month Limited Warranty. See Limited Warranty Policy in Index.

GPM	Stock No.	Retail	Each	Lots 4	Shpg. Wt.	O.E.M. Prices On Request
2	1P740	\$95.72	\$68.19	\$63.86	11 1/2	
3	1P741	95.72	68.19	63.86	11 1/2	

SPRAY PUMP PERFORMANCE and RECOMMENDED PUMP MOTORS

Motors Are Ball Bearing Capacitor-Start, 1725 RPM, 115/208-230V, 60 Hz, NEMA 56 Frame

For Pump No.	Motor HP	PERFORMANCE IN GPM						DRIPPROOF MOTORS			ENCLOSED MOTORS			Avg. Shpg. Wt.
		0-100 PSI	200 PSI	300 PSI	400 PSI	500 PSI		Stock No.	Retail	Each	Stock No.	Retail	Each	
1P740	1/2	2.4	2.1	—	—	—		4K855	\$87.00	\$56.96	6K937	\$96.00	\$62.85	23
	3/4	2.4	2.1	2.1	—	—		4K858	107.25	70.21	6K938	116.25	76.11	28
	1	2.4	2.1	2.1	2.0	2.0		5K921	118.50	77.58	6K562†	130.50	85.43	33
1P741	3/4	3.3	3.1	—	—	—		4K858	107.25	70.21	6K938	116.25	76.11	28
	1	3.3	3.1	3.1	—	—		5K921	118.50	77.58	6K562†	130.50	85.43	33
	1 1/2	3.3	3.1	3.1	3.0	3.0		5K923	150.00	98.20	5K565†	162.00	106.06	38

(†) Has automatic reset thermal protection.

VALVE & PISTON REPAIR KITS FOR Nos. 1P740 AND 1P741 TEEL SPRAY PUMPS

If pressure loss or excessive noise occurs due to normal valve wear, valve repair kit may be required to repair pump. Piston assembly kit may be required when pumped liquid seeps into oil crankcase. Refer to instruction manual supplied with Teel spray pumps for trouble shooting guide and diagrams to aid in disassembling pump.

No. 1R222. Valve Repair Kit. Fits either 1P740 or 1P741. Shpg. Wt. 4 oz.
Retail \$20.20. Each \$16.16; lots 4.....\$14.14

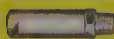
No. 1R223. Piston Assembly Repair Kit. Fits either 1P740 or 1P741. Shpg. Wt. 6 oz.
Retail \$17.50. Each \$14.00; lots 4.....\$12.25

POWDERED DETERGENT FOR PRESSURE WASHING

Concentrated, Low-Foaming. For Car Washing, Cleaning Floors, Equipment in Dairies, Garages, Etc.

\$37.02 A very efficient cleaning agent—dissolves grease, scum, dirt, etc. quickly, without excessive foaming. This concentrated dry-type white powder detergent is recommended for use with piston pumps for commercial car washing, engine cleaning, etc.; also for cleaning floors and equipment in garages, kitchens, dairies, etc. 1/2 to 2 oz. required per gallon of hot or cold water. 100 lbs., in plastic-lined fiber drum 15" dia., 25" H. Shpg. wt. 105 lbs.
No. 3P507. 100-Lb. Drum Dry-Type Detergent. Retail \$52.00. Each \$39.00; lots 3.....\$37.02

PRESSURE UNLOADER VALVE



For use with high pressure piston pumps operating at 500 PSI. Protects pump from damage when blockage or shut-off of discharge line occurs. Begins to unload at about 550-650 PSI. Installs at pump discharge line; by-pass return can be connected to pump suction line for short-duration bypass operation only. 3/8" MPT inlet, 1/4" FPT discharge. Brass body, stainless steel inlet & spring; nylon poppet. Shpg. wt. 7 oz.

For Pump	GPM	Stock No.	Retail	Each	Lots 4
1P740	2	1P742	\$16.20	\$11.55	\$10.95
1P741	3	1P745	16.20	11.55	10.95

PRESSURE RELIEF VALVE



Adjustable valve relieves pressure, releasing up to 6 GPM through 1/2" FPT discharge port. Prevents damage to positive displacement type pumps (piston, gear, etc.) where discharge blockage or shut-off may or will occur during pump operation. 1/2" MPT inlet. Built for long life, with stainless steel spring, brass body, Teflon seat. Shpg. wt. 1 lb.

PSI Range	Stock No.	Retail	Each	Lots 4
5-300	1P786	\$12.69	\$9.04	\$8.57
200-650	1P669	12.69	9.04	8.57

FERTILIZER & INSECTICIDE SPRAY PUMPS

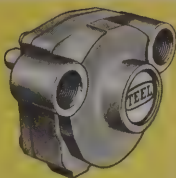
6-ROLLER PUMP

Economy model, cast iron body, back ports.

No. 1P734

\$36.40

Lots 4



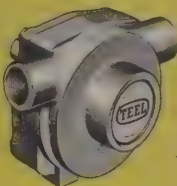
7-ROLLER PUMP

More capacity, side ports, cast-iron body.

No. 1P735

\$49.40

Lots 4



7-ROLLER PUMP

NI-RESIST body provides maximum resistance to corrosion. Twin ports.

No. 1P736

\$76.59

Lots 4



Nylon Rollers, Cast-Iron and Ni-Resist Bodies

TEEL

Precision-built for pumping fertilizers, insecticides, herbicides and a wide variety of agricultural materials. Engine-driven pumps are widely used for livestock spraying, liquid transfer and general farm operations. For tractor PTO or belt drive pump rotation must be counterclockwise as seen facing pump shaft. Equipped with special reinforced jumbo nylon rollers for longer life and better performance. 6-roller pump has a chrome-plated, stressproof, 5/8" diameter steel shaft; 7/8" diameter shaft on 7-roller pumps. Viton A seals and heavy-duty, easy-to-lubricate, shielded ball bearings. All pumps have 3/4" ID inlet and outlet ports. Approx. 6 5/8" W x 4 3/4" L x 4 3/4" H. Pumps warranted against defects in material and workmanship for six months from date of purchase. See Limited Warranty Policy in Index.

6-ROLLER BACK-PORT PUMP, No. 1P734. Economy model, suited to applications requiring back ports only.

7-ROLLER SIDE-PORT PUMP, No. 1P735. Cast-iron body with side ports provides user with greater capacities at high pressures.

7-ROLLER TWIN-PORT, NI-RESIST PUMP, No. 1P736. Built for superior wear and corrosion resistance. Designed to pump more GPM than any other pumps at equivalent operating speeds and pressures. Twin ports provide for additional re-circulating outlets where necessary.

Type	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6-Roller	1P734	\$53.93	\$38.43	\$36.40	9
7-Roller	1P735	73.19	52.15	49.40	11
7-Roll/N-R	1P736	113.46	80.84	76.59	14

PUMP PERFORMANCE AT REQUIRED MOTOR HP

Pump	RPM	25 PSI		50 PSI		100 PSI		150 PSI		200 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1P734	550	9.0	.40	8.0	.60	6.8	1.2	5.1	1.7	4.0	2.3
	750	12.8	.60	11.8	.85	9.7	1.6	9.2	2.3	7.9	3.2
	1000	17.5	.80	16.8	1.20	15.5	2.1	13.6	3.0	12.6	4.3
1P735	450	10.0	.50	8.4	.80	6.8	1.1	5.4	1.6	4.3	2.0
	650	15.2	.70	13.5	.85	12.0	1.5	10.6	2.2	9.6	2.9
	850	19.5	.85	18.5	1.10	17.0	1.9	15.6	2.9	14.0	3.7
1P736	450	11.2	.50	10.4	.60	9.2	1.1	8.2	1.6	7.3	2.0
	650	16.5	.70	15.8	.85	14.5	1.5	13.4	2.2	12.7	2.9
	850	21.5	.85	21.0	1.10	19.9	1.9	18.7	2.9	17.7	3.7

NYLON ROLLER KIT

and 7 roller replacement kits for above pumps. Includes rollers, two Viton A shaft seals, and 1 seal ring. Shpg. wt. 1 lb.

No. of rollers	Stock No.	Retail	Each	Lots 4
6	1P743	\$12.47	\$8.88	\$8.42
7	1P744	15.56	11.09	10.50

3/4" SUCTION STRAINER



Used on 3/4" suction hose to prevent solids from passing through and damaging pump, to prevent plugging spray nozzle screens. 40 mesh screen, size recommended for use with standard 100 mesh spray nozzle screens. use with wettable powders and other solids with small particles. Aluminum construction. For 3/4" I.D. hose. 7 1/2" long. Shpg. 1 lb.

1P739. Retail \$7.43. Each \$5.29; lots 4, \$5.02

PTO QUICK COUPLING



For direct-mounting above pumps to power take-off shaft on tractors. Has push-button, quick-connection feature. Shpg. wt. 1 1/4 lb.

Pump Shaft	PTO Shaft	Stock No.	Retail	Each	Lots 4
5/8"	1 1/8"	1P358	\$6.86	\$4.89	\$4.63
7/8"	1 1/8"	1P686	6.86	4.89	4.63

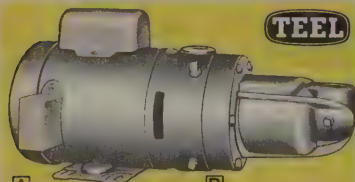
SPRAY DRIVE-BELT DRESSING



Aerosol spray that increases power drive up to 50% on flat, round or V belts. Can be sprayed on belt while in operation. Will not glaze or collect dirt on belt—does not contain asphalt or resin. 12 3/4 oz. pressurized can. Dem-Kote. Shpg. wt. 8 1/4 lbs. per ctn. of 6. No. 2X987. Belt Dressing. Retail \$2.65. Each \$1.55; lots 6.....\$1.29

POSITIVE-DISPLACEMENT 1/2 HP ROTARY SCREW PUMPS

Choice of High Volume or High Pressure—Capacity to 870 GPH or Pressure to 70 PSI



TEEL

Most versatile and efficient type pump available. Models offered for either high pressure needs up to 70 PSI, or low pressure, high volume to 870 GPH.

Excellent for pumping coolants, solids in suspension (but not abrasive slurries), oil base inks, water base paints, for sprinkler or water systems, plus countless other transfer jobs handling liquids compatible with pump construction at up to 160°F. Pump has cast iron housing with Buna N stator and chrome plated tool steel rotor. Seals are spring loaded stainless steel with carbon and ceramic face. Stainless steel motor shaft CCW rotation, as seen facing shaft.

Pumps self-prime up to 25 feet—Feature quiet operation and minimum turbulence, that is, velocity; non-aerating, with constant pressure. Powered by 1/2 HP, 115/230V, 50/60 Hz capacitor-start, totally enclosed, fan-cooled motor with automatic thermal protection. Teel brand.

A
HIGH-PRESSURE
To 870 GPH @ 70 PSI
\$210.25
No. 3P569, Lots 3

B
HIGH-VOLUME
To 840 GPH @ 10 PSI
\$213.54
No. 3P570, Lots 3

PERFORMANCE IN GALLONS PER HOUR AT TOTAL FEET OF HEAD; WATER, 60 TO 90°F.

Fig.	Stock No.	115/230V Hz	RPM	0 ft. 0 PSI	25 ft. 10 PSI	45 ft. 20 PSI	70 ft. 30 PSI	90 ft. 40 PSI	115 ft. 50 PSI	140 ft. 60 PSI	160 ft. 70 PSI
A	3P569	60†	1725	290	270	265	240	225	210	195	180
B	3P570	60†	1725	870	840	750	690	—	—	—	—

(†) Specifications shown are for performance at 60 Hz; at 50 Hz, RPM and flow rate will be 20% less.

ROTARY SCREW PUMP SPECIFICATIONS AND PRICES

Fig.	Suction	Discharge	Particle Size Max.	Motor HP	H	Overall W	L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
A	1"	3/4"	1/2"	1/2	8 3/4"	6 3/4"	18 1/8"	3P569	\$253.00	\$221.33	\$210.25	47
B	1	3/4	3/8	1/2	8 3/4"	6 3/4"	18 1/8"	3P570	257.00	224.77	213.54	47

1/2 HP 12-STAGE PRESSURE BOOSTER PUMP

Boosts Pressures up to 140 PSI. 528 GPH at 10 PSI; 96 GPH at 140 PSI. 15 Ft. Maximum Suction Lift

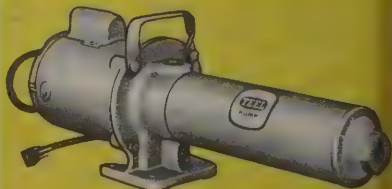
Boosts water pressure from city mains or private water systems when required for lawn sprinkling, high-pressure washing, fire protection, etc. (140 PSI max.) Also suited for a wide range of commercial, industrial and farm applications. On farms, pump is used for high-pressure washing of dairy walls, floors and equipment, also spraying insecticides. Do not use or store pump below 32°F.

Pump is compact and portable. For booster applications, connect 3/4" inlet to faucet and attach high-pressure hose or pipe to 3/4" outlet. For pumping from cistern, tank or pond, unit has up to 15 ft. suction lift. For these applications, a foot valve should be used on end of suction line and pump manually primed before first use. Pump should not be run dry or with discharge line closed. 180°F. max. for liquid.

12-stage booster assembly has stainless steel hexagonal shaft, Noryl® diffusers, Delrin® diffuser plates and Noryl impellers. No. 302 stainless.

\$147.87
1/2 HP, Lots 3

TEEL

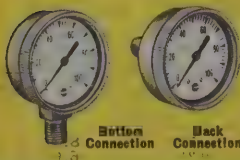


less steel radial bearing pressed and staked into each diffuser cup. Components housed in Type 304 stainless steel shell. Cast iron discharge head, steel pump base, 3/4" NPT inlet and discharge. 3/4" IPT inlet and discharge. Powered by 1/2 HP, 3450 RPM, 115V, 60 Hz Dayton capacitor motor with automatic thermal overload protection, stainless steel shaft, 8 ft. 16/3 cord and plug. 27Lx10Hx8"W. Teel brand. Shpg. wt. 34 lbs. No. 1P879. 1/2 HP Teel Booster Pump. Retail \$259.43. Each \$155.66; lots 3.....\$147.87

CAPACITIES IN GALS. PER HOUR

10 PSI	20 PSI	40 PSI	60 PSI	80 PSI	100 PSI	120 PSI	140 PSI
528	504	462	420	360	300	228	96

PRESSURE GAUGES



For water, oil, steam, air. Plastic case and lens & precision brass mechanism.

U.S. Gauge brand
Wt. 4 oz.

1/4" BOTTOM CONNECTION GAUGES

PSI	Dial	Stock No.	Retail	Each	Lots 10
60	2"	5X939	\$4.65	\$2.56	\$2.43
100	2	4X512	3.65	2.01	1.91
200	2	4X513	3.65	2.01	1.91
300	2	4X514	3.80	2.09	1.99
1000	2	5X938	7.75	4.26	4.05

1/4" BACK CONNECTION GAUGES

PSI	Dial	Stock No.	Retail	Each	Lots 10
100	2"	4X515	\$4.40	\$2.42	\$2.30
200	2	4X516	4.40	2.42	2.30
300	2	4X790	4.40	2.42	2.30

POSITIVE-DISPLACEMENT ROTARY SCREW PUMPS

Self-Priming, Positive Displacement. Handle Suspended Solids and Abrasives

TEEL



PUMP ONLY

\$83.00

Lots 3 No. 1P610

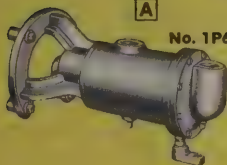


No. 1P898, 9.3 GPM

NEW

A

No. 1P610, 5 GPM



C

**No. 1P804,
9.3 GPM**

PUMP AND

MOTOR OR ENGINE COMBINATIONS

\$144.64

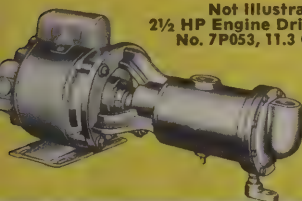
Lots 3 No. 7P051

D

**No. 7P051, 9.3 GPM
No. 7P052, 9.3 GPM**

Not Illustrated

**2½ HP Engine Driven Model
No. 7P053, 11.3 GPM**



Teel rotary screw pumps are designed for moderate capacity and pressure applications pumping liquids such as water or abrasive slurries. 430 RPM max. when pumping abrasive slurries. Capable of lifting water 25 feet, pump can be used to pump from shallow wells, creeks, ponds, etc., for water systems, spraying, or lawn sprinkling—also for viscous liquid transfer provided liquid is compatible with material of pump construction. Maximum liquid temperature 180°F.

No. 1P898 has cast iron body, Nos. 1P610 and 1P804 have aluminum body, all come with Buna N stator, chrome plated stainless steel rotor. Spring loaded mechanical seal—carbon rotating face and ceramic stationary seat. Pre-lubricated ball bearings and stainless steel shafts. Clockwise rotation as seen facing pump shaft.

Pumps 1P610 and 1P898 are base mounted and may be belt driven or coupled to electric motor. Pump 1P804 may be direct coupled to NEMA 56 frame capacitor-start 1/3 or 1/2 HP electric motor or Tecumseh 2½ HP 4 cy. gas engine, specifications listed elsewhere in book—see Index under Engines. Gas. Pump/motor combinations No. 7P051 and 7P052 include No. 1P804 pump and Dayton capacitor-start, 1725 RPM, 115V, 60 Hz, NEMA 56 frame, ½" shaft motor. Pump/engine combination No. 7P053 includes No. 1P804 pump and 2½ HP Tecumseh engine.

PUMP PERFORMANCE AND MOTOR HP REQUIRED FOR WATER @ 60 TO 90°F.

Fig.	Stock No.	Pump RPM*	Free Flow GPM	10 PSI		20 PSI		40 PSI		50 PSI		75 PSI	
				HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM
A	1P610	860	2.2	1/6	2.1	1/6	2.0	1/6	1.5	1/4	—	—	—
		1140	2.9	1/6	2.8	1/6	2.6	1/6	2.0	1/4	—	—	—
		1725	5.0	1/6	4.5	1/6	4.0	1/4	3.0	1/4	—	—	—
B	1P898	860	4.6	1/3	3.9	1/3	3.2	1/3	2.1	1/2	1.9	1/2	—
		1140	5.9	1/3	5.2	1/3	4.4	1/3	3.0	1/2	2.6	1/2	—
		1725	9.0	1/3	8.0	1/3	6.8	1/3	4.8	1/2	4.2	1/2	—
C	1P804	1725	9.3	1/3	8.5	1/3	7.7	1/3	6.1	1/3	4.8	1/2	3.8 1/2
D	7P051	1725	9.3	1/3	8.5	1/3	7.7	1/3	6.1	—	—	—	—
D	7P052	1725	9.3	1/3	8.5	1/3	7.7	1/3	6.1	1/2	4.8	1/2	3.8 1/2
(†)	7P053	2100	11.3	2½	10.3	2½	9.4	2½	7.4	2½	5.9	2½	4.6 2½

* No. 7P053 not illustrated. Comes with 2½ HP Tecumseh gasoline engine.

† RPM and GPM are proportionate; i.e., at 860 RPM pump output is half of GPM figure for 1725 RPM.

PUMP & MOTOR/ENGINE COMBINATION DIMENSIONS AND PRICES

g. HP RPM	Suction	Port Size Discharge	Particle Size Max.	Shaft Dimensions Ht. OC	Overall—			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
					L	W	H					
Pump Only	¾"	½"	¾"	2"	1½ O.D.	8½"	3¾"	1P610	\$116.50	\$87.38	\$83.00	2
Pump Only	¾"	¾"	¾"	2¾"	¾ O.D.	12½"	3¾"	1P898	146.88	110.16	104.65	15
Pump Only	¾"	¾"	¾"	3½"	¾ I.D.	14½"	6½"	1P804	156.64	111.61	105.73	8
1/3 1725	¾"	¾"	¾"	3½"	¾ I.D.	23	6½"	7P051	\$214.28	\$152.67	\$144.64	25
1/2 1725	¾"	¾"	¾"	3½"	¾ I.D.	24½"	6½"	7P052	222.82	158.76	150.40	28
2½ 2100	¾"	¾"	¾"	3½"	¾ I.D.	22½"	13½"	7P053	264.40	188.39	178.47	35

REPLACEMENT RUBBER STATORS AND SEALS FOR ABOVE PUMPS

Under proper use, pumps will provide long service, with renewal generally limited to easy replacement of seal or stator available through Customer Service Dept., (Chicago). Order from nearest Grainger address for fastest shipping service.

REPLACEMENT SEALS

For Pump No.	Stock No.	Retail	Each	Lots 8	Shpg. Wt.
1P610	1P615	\$7.10	\$5.33	\$5.06	4 oz.
1P804	1P557	8.55	6.41	6.09	8 oz.
1P898	1R239	9.70	7.28	6.91	6 oz.

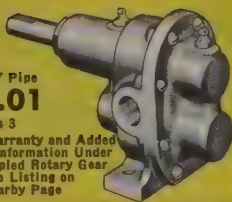
REPLACEMENT STATORS

For Pump No.	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1P610	1P613	\$5.93	\$4.45	\$4.23	4 oz.
1P804	1P556	11.75	8.81	8.37	8 oz.
1P898	1R240	9.31	6.98	6.63	14 oz.

SEE WARRANTY INFORMATION ON PAGE 684

TEEL ALL CAST IRON ROTARY GEAR PUMP

½" to 1" Size, Grease-Lubricated Bearings



For ½" Pipe
\$21.01

Lots 3

Limited Warranty and Added
Selection Information Under
Close-Coupled Rotary Gear
Pump Listing on
Nearby Page

Pedestal mount, cast iron, rotary gear pump for fluid transfer, recirculation, cleaning, oil and chemical handling. Positive displacement type; capacity 1 to 24 GPM, pressures to 100 PSI and temperature from 0°F to 210°F. Self priming capability. Liquids handled are those suitable to be used with cast iron body, steel shaft and gears, graphite asbestos packing. As a broad rule, cast iron is suitable for caustic solutions, but not necessarily all caustics. Not recommended for intermittent water pumping service. A suitable relief valve, see Index under Relief Valves, must be installed if there is any restriction or closing of the discharge while the pump is operating. Pumps can be direct-coupled with motor, power take-off or belt drive. Use of ball bearing pillow block recommended if pump is belt-driven. Teel brand.

PUMP PERFORMANCE AND MOTOR HP REQUIRED FOR FLUIDS OF 35 S.S.U. @ 60 TO 90°F.

Pipe Size	Pump RPM*	Free Flow GPM	40 PSI HP	40 PSI GPM	100 PSI HP	100 PSI GPM	Pipe Size	Pump RPM*	Free Flow GPM	40 PSI HP	40 PSI GPM	100 PSI HP	100 PSI GPM
1/8"	900	1.0	1/8	0.2	1/8	—	1/2"	900	5.4	3/4	4.4	1 1/2	3.3
	1200	1.3	1/8	0.7	1/8	—		1200	7.5	1 1/4	6.5	2 1/2	5.2
	1725	1.8	1/8	1.4	1/8	0.5		1725	11.3	1 3/4	10.3	3 1/2	8.9
1/4"	900	2.2	1/8	1.5	1/4	0.8	3/4"	900	10.3	1 1/4	9.4	3 1/2	8.0
	1200	2.9	1/8	2.2	1/4	1.6		1200	13.8	1 3/4	13.0	4 1/2	11.9
	1725	3.8	1/8	3.5	1/4	2.8		1725	19.6	2	19.4	5 1/2	18.0
3/8"	900	4.1	1/8	3.2	1/2	2.1	1"	900	12.5	1 1/2	12.1	4 1/2	11.0
	1200	5.5	1/8	4.7	1/2	3.5		1200	16.6	2 1/4	16.3	5 1/2	15.0
	1725	7.0	1/8	6.0	1/2	6.6		1725	24.0	3	24.0	6 1/2	23.1

(*) RPM and GPM are in proportion i.e., at 860 RPM, pump output is half of GPM figure for 1725 RPM.

TEEL CAST IRON GEAR PUMP DIMENSIONS AND PRICES

Pipe Size	Shaft Dia.	Shaft Ht.	H	Overall W	L	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
1/8"	3/8"	1 1/8"	2 1/8"	2 3/8"	6"	1P825	\$31.13	\$22.18	\$21.01	2
1/4"	1/2"	2 1/8"	3 3/8"	3	6 1/4"	1P826	35.09	25.00	23.69	4
3/8"	5/8"	2 3/8"	4	3 3/8"	6 3/8"	1P827	45.12	32.15	30.46	5
1/2"	3/4"	2 3/8"	4	3 3/8"	7	1P828	50.09	35.69	33.81	5
3/4"	7/8"	3 3/8"	5 1/4"	4	7	1P829	69.42	49.46	46.86	8
1"	1"	3 3/8"	5 1/4"	4	7 1/2"	1P830	74.70	53.22	50.42	8

HIGH-PRESSURE 18" HAND GUN LESS NOZZLE PACK

Stainless Steel Spring, Nylon Valve

Trigger type hand gun. Non-clogging and non-corroding valve control mechanism. Designed for pressures up to 1000 PSI. Brass 18" extension wand. Teflon packing. Units priced and sold less nozzles. Select nozzle pack matching capacity and pressures from table below, these give spray angles of 0°, 25°, 40° and 65°. Shpg. wt. 1 1/4 lb.

No. 1P844. High-pressure 18" Hand Gun Without Nozzle Pack. Retail \$19.20. Each \$13.68; lots 4.....\$12.96



\$12.96

Lots 4
Less
Nozzle

HANDGUN NOZZLE CAPACITY IN GPM AT PUMP PSI AND PRICES

Select Nozzle Pack for GPM & PSI equal or greater than pump performance

NOZZLE PACK not included in price of hand-gun—specify Stock No. at right. Shpg. wt. 3 oz.

NOZZLE PACKS. Retail \$13.41. Each \$9.55; lots 4, assorted.....\$9.05

PUMP PSI	—NOZZLE PACK STOCK NO.—			
	1P845	1P846	1P847	1P848
400	1.4 GPM	1.7 GPM	2.7 GPM	3.2 GPM
500	1.5 GPM	1.9 GPM	3.0 GPM	3.5 GPM
600	1.7 GPM	2.1 GPM	3.3 GPM	3.9 GPM
700	1.9 GPM	2.3 GPM	3.6 GPM	4.2 GPM

1/4 & 3/8" ID, 30 FT. LONG HIGH-PRESSURE HOSES

\$20.02

½", Lots 4

For use as carwash hose, on high pressure sprayers, etc. Burst pressure 4 times operating pressure. Nylon inner core with polyester reinforcement. Non-marking, highly abrasion-resistant Hytel covering. 1/4" ID has 1/4" NPT male fittings at both ends. 3/8" ID has 3/8" NPT male fitting at one end, 1/4" NPT male at other, to fit handguns. All hoses have male-female swivel adapter at pump end to facilitate connecting. Maximum temp. 200°F.



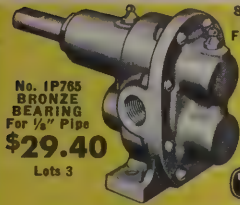
Size ID	Long	Fittings, NPT Male	Capacity, PSI GPM	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
1/4"	30 ft.	1/4 & 1/4"	2000 3	1P842	\$28.60	\$21.45	\$20.02	3
3/8"	30 ft.	3/8 & 1/4"	1400 5	1P843	35.40	26.55	24.78	3 1/2

TEEL ALL-BRONZE ROTARY GEAR PUMPS

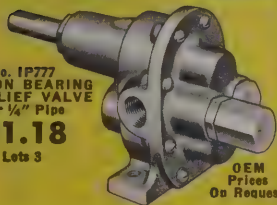
Bronze or Carbon Bearing. Adjustable Relief Valves. 1/8 to 1" Pipe Size

SELECTION
DATA ON
FOLLOWING
PAGE

TEEL



No. 1P765
BRONZE
BEARING
For 1/2" Pipe
\$29.40
Lots 3



No. 1P777
CARBON BEARING
W/RELIEF VALVE
For 1/2" Pipe
\$41.18
Lots 3

OEM
Prices
On Request

Positive displacement, self-priming capability with pressures to 100 PSI, for handling any clear fluid that is abrasive-free and chemically compatible with bronze and graphite asbestos packing. In general, these pumps are compatible with acidic solutions, rather than caustics; however, they are not necessarily compatible with all acidic solutions. For spraying, recirculating, cleaning or general transfer application where high pressures are required. Temp. range -40°F to +210°F. Selection range from 1/8 to 1" pipe size with flows from 1 to 24 GPM. Pumps can be direct coupled with motor, power take-off, or belt drive; use of ball bearing pillow block recommended if pump is belt-driven. Flow varies in direct proportion to RPM. Pumps have No. 303 stainless steel shafts and are available with bronze or carbon-graphite bearings; latter also with or without adjustable relief valve.

BRONZE BEARING: Recommended for use where light intermittent service is required or on continuous duty applications with low pressure needs. Have Zerk type grease fittings with reservoir, for periodic lubrication.

CARBON BEARING: Recommended for use where continuous service at high pressures is required; never need lubrication. Available with or without relief valve; relief valve is adjustable, provides pressure relief by permitting recirculation of liquid to avoid damage to pump when blockage of discharge line occurs—as when activating shut-off valve, turning hand gun off, etc.

PUMP PERFORMANCE AND MOTOR HP REQUIRED FOR WATER @ 60 TO 90°F.

Pipe Size	Pump RPM*	Free Flow		20 PSI		40 PSI		60 PSI		80 PSI		100 PSI	
		GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1/8"	900	1.0	1/8	0.6	1/8	0.2	1/8	—	—	—	—	—	—
	1200	1.3	1/8	0.9	1/8	0.7	1/8	0.4	1/8	0.1	1/8	—	—
	1725	1.9	1/8	1.6	1/8	1.4	1/8	1.1	1/8	0.8	1/8	0.5	1/8
1/4"	900	2.2	1/8	1.8	1/8	1.5	1/8	1.2	1/8	1.0	1/8	0.8	1/8
	1200	2.9	1/8	2.5	1/8	2.2	1/8	2.0	1/8	1.8	1/8	1.6	1/8
	1725	3.8	1/8	3.7	1/8	3.5	1/8	3.2	1/8	3.0	1/8	2.8	1/8
3/8"	900	4.1	1/8	3.6	1/8	3.2	1/8	2.8	1/8	2.4	1/8	2.1	1/8
	1200	5.5	1/8	5.0	1/8	4.7	1/8	4.3	1/8	3.9	1/8	3.5	1/8
	1725	7.0	1/8	6.9	1/8	6.9	1/8	6.8	1/8	6.8	1	6.6	1
1/2"	900	5.4	1/8	4.9	1/8	4.4	1/8	4.0	1/8	3.6	1/8	3.3	1/8
	1200	7.5	1/8	7.0	1/8	6.5	1/8	6.0	1/8	5.6	1/8	5.2	1
	1725	11.3	1/8	10.8	1/8	10.3	1/8	9.9	1	9.5	1 1/2	8.9	1 1/2
3/4"	900	10.3	1/8	9.8	1/8	9.4	1/8	9.0	1/8	8.5	1	8.0	1 1/2
	1200	13.8	1/8	13.3	1/8	13.0	1	12.6	1 1/2	12.0	1 1/2	11.9	2
	1725	19.9	1	19.6	1 1/2	19.4	1 1/2	19.0	2	18.5	2	18.0	3
1"	900	12.5	1/8	12.3	1/8	12.1	1/8	11.9	1	11.5	1	11.0	1 1/2
	1200	16.6	1/8	16.4	1/8	16.3	1	16.1	1 1/2	15.6	1 1/2	15.2	2
	1725	24.0	1	24.0	1 1/2	24.0	1 1/2	23.9	2	23.4	3	23.1	3

* RPM and GPM are in proportion i.e., at 860 RPM, pump output is half of GPM figure for 1725 RPM.

BRONZE BEARING PUMPS WITHOUT RELIEF VALVE

Pipe Size	Shaft Diameter	Shaft Height	Overall			Stock No.	Retail	Each	Lots 3	Shpg. Wt.
			H	W	L					
1/8"	3/8"	1 7/8"	2 7/8"	2 3/8"	6"	1P765	\$43.56	\$31.04	\$29.40	2
1/4"	1/2"	2 1/4"	3 3/8"	3	6 1/4"	1P766	48.01	34.21	32.41	4
3/8"	5/8"	2 5/8"	4	3 5/8"	6 5/8"	1P767	62.92	44.83	42.47	5
1/2"	5/8"	2 5/8"	4	3 5/8"	7	1P768	69.84	49.76	47.14	6
3/4"	5/8"	3 3/8"	5 1/4"	4	7	1P769	94.17	67.10	63.56	8
1"	5/8"	3 3/8"	5 1/4"	4	7 1/2"	1P770	101.39	72.24	68.44	9

CARBON BEARING PUMPS WITHOUT RELIEF VALVE

1/8"	3/8"	1 7/8"	2 7/8"	2 3/8"	5 3/4"	1P771	\$47.57	\$33.89	\$32.11	2
1/4"	1/2"	2 1/4"	3 3/8"	3	6 1/4"	1P772	52.64	37.51	35.53	4
3/8"	5/8"	2 5/8"	4	3 5/8"	6 5/8"	1P773	69.05	49.20	46.61	5
1/2"	5/8"	2 5/8"	4	3 5/8"	7	1P774	76.96	54.64	51.77	6
3/4"	5/8"	3 3/8"	5 1/4"	4	7	1P775	98.38	70.10	66.41	8
1"	5/8"	3 3/8"	5 1/4"	4	7 1/2"	1P776	106.09	75.59	71.61	9

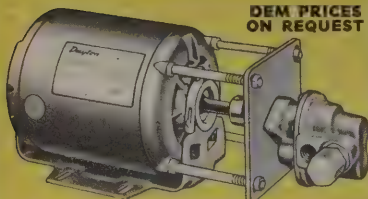
CARBON BEARING PUMPS WITH RELIEF VALVE

1/4"	1/2"	2 1/4"	3 3/8"	3"	7 1/4"	1P777	\$61.00	\$43.46	\$41.18	4
3/8"	5/8"	2 5/8"	4	3 5/8"	8	1P778	85.32	60.79	57.59	6
1/2"	5/8"	2 5/8"	4	3 5/8"	8	1P779	88.52	63.07	59.75	6
3/4"	5/8"	3 3/8"	5 1/4"	4	8 3/4"	1P780	113.29	80.72	76.47	9
1"	5/8"	3 3/8"	5 1/4"	4	9 1/2"	1P781	120.95	86.78	81.64	10

SEE WARRANTY INFORMATION ON PAGE 684

CLOSE-COUPLED ROTARY GEAR TEEL PUMPS

Easily Coupled to Dayton 1/3 or 1/2 HP Overload Protected Motor



DEM PRICES
ON REQUEST

TEEL

1/3 HP, With
Relief Valve
No. 7P046, 115V

\$74.81

Lots 3

Teel bronze rotary gear pump designed for quick, easy coupling to Dayton motors. Positive displacement type, with self-priming capability, provides up to 100 PSI and 4.4 GPM for low volume, high pressure requirements. Buna N seal. Pumps are equipped with carbon bearings for continuous, heavy-duty operation. No lubrication required. All-bronze body with 1/4" stainless steel shaft and lip seal. Available with or without adjustable relief valves; relief valve permits recirculation of liquid at reduced pressure, to avoid damage to pumps when blockage of discharge line occurs through activating of shut-off valve, turning hand gun to off position, etc. 1/4" or 3/8" suction and discharge pipe size. Pump head, motor adapter, coupling and thru-bolt mounting screws are packed as a unit. Temperature range -40° to +210°F.

Pumps connect to overload-protected 1725 RPM, 1/3 HP split phase, or 1/2 HP capacitor motors in NEMA 48 or 56 frame.

PUMP PERFORMANCE AND MOTOR HP REQUIRED FOR WATER @ 60 TO 90°F.

Table at right shows pump performance when pumping abrasive-free water at 60 to 90°F, thru piping of same size as pump inlet and discharge ports. Deliveries shown are for 1725 pump RPM; at lower speeds, GPM and RPM are proportional. For performance with other materials or different conditions, see "Pump Selection" information given below.

GAL. PER MINUTE OF WATER AT TOTAL PSI

Pipe Size	Req'd HP	Free Flow	20 PSI	40 PSI	60 PSI	80 PSI	100 PSI
1/4"	1/3	2.2	2.1	1.9	1.7	1.5	1.3
3/8"	1/3	4.4	4.1	—	—	—	—
1/2"	1/2	4.4	4.1	3.8	3.5	3.3	3.0

GEAR PUMP AND PUMP/MOTOR COMBINATIONS—WITH OR WITHOUT RELIEF VALVE

Port Pipe Size	Dayton Motor† HP	Volts 60 Hz	Less Adjustable Relief Valve				With Adjustable Relief Valve			
			Stock No.	Retail	Each	Lots 3	Shpg. Wt.	Stock No.	Retail	Each
1/4" Pump Head Only*			1P782	\$64.42	\$45.90	\$43.48	3	1P784	\$71.74	\$51.11
3/8" Pump Head Only*			1P783	70.67	50.35	47.70	4	1P785	81.06	57.71
1/4" 1/3	115		7P041	107.17	73.89	69.87	18	7P046	114.49	79.10
1/4" 1/3	230		7P042	110.17	75.85	71.72	18	7P047	117.49	81.06
3/8" 1/3	115		7P043	113.42	78.34	74.09	19	7P048	123.81	85.70
3/8" 1/3	230		7P044	116.42	80.30	75.94	19	7P049	126.81	87.66
3/8" 1/2	115/230		7P045	141.17	96.50	91.22	24	7P050	151.56	103.86

(*) Includes pump head, NEMA 48 and 56 frame motor mounting hardware, and instructions.

(†) 1/2 HP capacitor start, others split phase. All NEMA 48 frame.

ROTARY GEAR AND ROTARY SCREW PUMP SELECTION INFORMATION

HOW TO DETERMINE TOTAL PUMP DISCHARGE PRESSURE: Add suction lift (in feet) to discharge elevation in feet; divide total by 2.31. To this figure add the discharge pressure required, in PSI. This sum is the total pump pressure needed. Select pump and motor HP delivering GPM required, at or above Total PSI figure calculated.

$$\frac{\text{Suction Lift (Ft.)} + \text{Discharge Elev. (Ft.)}}{2.31} + \text{Discharge PSI Req'd.} = \text{Total Pump PSI Req'd.}$$

VISCOUS LIQUIDS: The viscosity/temperature of liquid being pumped will affect the pump speed (RPM). Where the viscosity/temperature SSU (Seconds Saybolt Universal) is greater than 500 SSU, recommended pump RPM is shown in the table below.

PERFORMANCE FOR VISCOUS MATERIALS

Viscosity SSU†	Recommended Pump RPM	Viscosity SSU†	Recommended Pump RPM
50 to 500	1725	8000 to 9000	900
600 to 5000	1200	10,000 to 40,000	650

(†) Seconds Saybolt Universal; viscosity value at liquid pumping temperature.

SPECIFIC GRAVITY: Specific gravity of fluid pumped will affect horsepower requirements. Where specific gravity of the liquid is below 1.0 (specific gravity of water), the motor HP

recommendation in Pump Performance Table for Water should be used. Where specific gravity of the fluid is greater than 1.0, multiply specific gravity of the liquid times the recommended horsepower in Pump Performance Table for Water; the result is the motor HP required.

LIQUID COMPATIBILITY: Liquids being pumped must be compatible with pump construction. **Gear Pumps:** Bronze or cast iron body and gears, Type 303 stainless steel shaft, and graphite asbestos packing. **Rotary Screw Pumps:** Cast aluminum housing, chrome plated tool steel rotor. Buna N stator, Type 304 stainless steel seal with carbon and ceramic face. If in doubt refer the application to the nearest Grainger location, including information as to the liquid being pumped, temperature, viscosity, specific gravity, GPM required, and total pump psi required.

6 MONTH LIMITED WARRANTY

All Teel rotary gear pumps are warranted to be free from defects in material and workmanship for 6 months. See Limited Warranty Policy in Index.

Under proper use, pumps will provide long life. Pump assembly can easily be removed by simply replacing gear and shaft assembly available through Customer Service Dept., Chicago.

TUTHILL FILL-RITE 12 VOLT DC & HAND PUMPS

12 VOLT DC FUEL PUMP

Connects to Truck or Boat Battery



\$145.90

Lots 3

Shown Mounted
on Truck Tank



Lightweight sturdily built pump designed for refueling, transferring or dispensing fuel and other liquids where 12 volt DC provides best power source. Positive displacement rotary design has bronze rotor and self-adjusting sintered iron vanes. Unit is self-priming, has built-in check valve and strainer. Delivers up to 13 gallons per minute, will lift gasoline 15 feet. Unit driven by 1/4 HP, 12 volt DC powered explosion proof, permanent magnet motor with permanently lubricated ball bearings, thermally protected and designed to operate up to 30 minutes continuously. Built-in junction box enables easy connections to battery (not included). Corrosion resistant construction, fully weatherized motor compartment completely sealed. Adjustable suction tube (22 to 40") allows installation on either barrel or tank. Unit includes pump, motor, suction pipe, 10' long hose and nozzle. Pump dimensions: 10 3/4" L x 12 1/2" W x 9 1/2" D. UL listed. Fill-Rite brand (1210). 8% Federal Excise Tax included. Shpg. wt. 29 lbs.

No. 1P894. 12 Volt DC Dispensing Pump. Retail \$182.37. Each \$155.01; lots 3.....**\$145.90**

TEEL 3 GPM BARREL PUMP

Hand Plunger Type. Pumps 3 Gals. Per Min.



\$10.44

Lots 6

Hand plunger type pump will pump up to 3 gals. per minute from barrel or drum at forty-two 8 1/2" strokes per min. Always handy — easy to install — attaches to standard 2" threaded opening in barrel or drum. 24" long x 1 1/4" dia. chrome plated steel body may be raised or lowered to desired depth through lock-type delrin bushing. When used with 22" polyethylene extension tube, will reach depth of 55 gal. drum. Polyethylene plunger. 6 1/2" discharge spout. 1/16" dia. Use only for pumping water and other liquids compatible with polyethylene. Teel brand. Shpg. wt. 2 1/2 lbs.

No. 1P634. Teel Barrel Pump Kit. Retail \$16.91. Each \$10.99; lots 6.....**\$10.44**

PISTON TYPE HAND PUMP

Double-acting pump handles **\$44.00**

Lots 3

gasoline, solvents, lubricating and fuel oils, alcohol, etc. Pumps approximately 20 gallons per 100 strokes. Self-priming. All metal construction. Teflon packing. Body and piston are corrosion resistant aluminum, body fitted with stainless steel replaceable liner. 22 to 40" telescoping suction tube, 8' hose and nozzle included. Pump only 19 L x 6 1/2" W x 8" H. Fill-Rite brand (F-152). Shpg. wt. 15 lbs.

No. 1P892. Piston Pump. Retail \$55.00. Each \$46.75; lots 3.....**\$44.00**



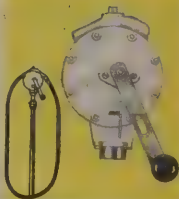
ROTARY TRANSFER PUMP

Hand operated pump delivers up **\$47.20**

Lots 3

to 10 gallons of fluid per 100 revolutions. Handles petroleum products and industrial liquids such as alcohol, gasoline, diesel fuel, lubricating oils (up to SAE 40), anti-freeze, solvents, etc. Rotor is non-porous cast iron, has spring loaded vanes made of special carbon composition. Lightweight cast aluminum body has built-in monel strainer and check valve. Entire operating mechanism readily accessible for cleaning. 22 to 40" telescoping suction pipe, 2" bung adapter, 8' hose and non-sparking nozzle included. Pump only is 12 1/4" L x 6 1/2" W x 7 1/2" H. Fill-Rite brand (112). Shpg. wt. 18 lbs.

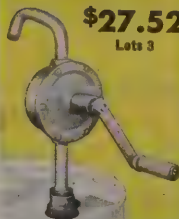
No. 1P893. Rotary Transfer Pump. Retail \$59.00. Each \$50.15; lots 3.....**\$47.20**



BLACKMER OIL PUMP

10 GPM. Rotary Hand Crank

Installs on Barrels, Drums, Tanks, Etc.



\$27.52

Lots 3

Cast iron pump for transfer or dispensing of fuel oil, lubricating oil, gasoline and other non-corrosive liquids. Pump is adapted for installation on barrels, oil drums, tanks, etc. Includes 2" bung adaptor and 3/4" threaded discharge spout. Also includes 3/4" telescoping suction pipe for easy adaptation for barrels, tanks, etc. 21" min. to

40" max. length. Sliding vane type pump—self-priming with smooth, non-pulsating flow. 3/4" FPT inlet and outlet ports 10 GPM at 115 RPM. Not for water or other liquids that may cause corrosion. Shipped unassembled in one carton. Blackmer brand (AT 210). Shpg. wt. 17 lbs.

No. 1P667. Hand Pump with Suction Pipe. Retail \$42.00. Each \$29.48; lots 3.....**\$27.52**

OPEN-AIR OR SUBMERSIBLE CENTRIFUGAL TEEL PUMPS

Hermetically Sealed 115V, 60 Hz Motors. 85 to 855 GPH at 5 Ft. Head. UL Listed

OPEN-AIR OR SUBMERSIBLE

A

\$22.37

No. 1P805
180 GPH, Lots 4

OPEN-AIR OR SUBMERSIBLE

B

\$28.98

No. 1P808
400 GPH, Lots 4

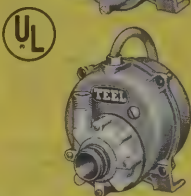
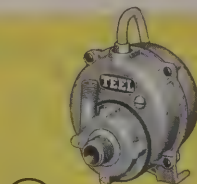
TEEL

SUBMERSIBLE ONLY

C

\$50.91

No. 1P809
900 GPH, Lots 4



- Long Life Shaded Pole Motors
- Hermetically Sealed—Lifetime Oil Supply
- Rustfree Die-Cast Zamak No. 3 Motor Housing with Double-Coated Epoxy Finish
- Pump Housing and Impeller of Aluminum Filled Polypropylene for Added Strength

A B Hermetically sealed, high output, centrifugal pumps suitable for submerged or open air operation in fountains, vaporizers, condensate removal, machine coolant circulation and countless other home and industrial uses; up to 165°F with liquids compatible with pump material. Shaded pole motors, hermetically sealed in oil for permanent lubrication. Encased in die cast Zamak No. 3 housing, double-coated with red epoxy finish to assure maximum protection against corrosion. Type 416 stainless steel shaft and Buna N lip seal for trouble-free service. Pump housing and impeller of aluminum-filled polypropylene compound for added strength. Pumps operated on 115V, 60 Hz. 6 ft. UL listed, water and oil resistant, 3-conductor cord set. Will operate in any position, submerged or in open air located below liquid level at inlet; delivery may be restricted at discharge without damage to motor. Meets L.A. Dept. of Bldg. and Safety Codes.

C High capacity submersible pump has same features as above units plus long-life carbon seal, thermal protected 1/10 HP, 115V, 60 Hz. motor and ball type thrust bearing. Also, has detachable strainer and garden hose threaded outlet. Pump, hermetically sealed motor housing, impeller all constructed of die cast Zamak No. 3 for heavy duty use. Pump has two spring-loaded Buna N lip seals. For submersible use only.

PUMP PERFORMANCE AND PORT INLET-OUTLET SIZES

Fig.	Stock No.	Gallons of Water per Hour at Total Feet of Head								Max. Ft Head @ Equivalent		—Port Sizes—	
		1 Ft.	3 Ft.	5 Ft.	9 Ft.	11 Ft.	13 Ft.	20 Ft.	25 Ft.	0 Suct.	PSI	Inlet NPT	Outlet NPT
A	1P805	180	120	85	—	—	—	—	—	6.5	2.8	1/2" Male	1/2" Male
A	1P806	200	140	105	—	—	—	—	—	8.2	3.6	1/2" Male	1/2" Male
A	1P807	245	215	185	80	—	—	—	—	9.8	4.2	1/2" Male	1/2" Male
B	1P808	400	340	300	180	—	—	—	—	11.0	4.8	3/4" Garden Hose	3/4" Male
C	1P809	900	880	855	800	770	740	570	250	30.0	13.0	3/4" Screened	3/4" Garden Hose

HERMETICALLY SEALED TEEL PUMP PRICES AND DIMENSIONS

—OEM Prices Available To Quantity Buyers—Ask Your Grainger Salesman—

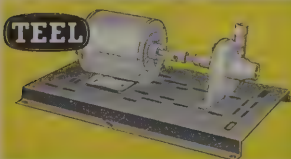
Fig.	Motor HP	Full-Load		Overall Dimensions			Mounting		Stock No.	Retail	Each	Lots 4	Shpg. Wt.
		Amps	Watts	High	Wide	Long	Slots	OC					
A	1/100	.7	43	5"	5"	4 1/2"	1 1/4"	2 7/8"	1P805	\$33.64	\$23.55	\$22.37	3 3/4"
A	1/100	.74	49	5	5	4 1/2"	1 1/4"	2 7/8"	1P806	35.39	24.77	23.53	4 1/2"
A	1/90	.90	50	5	5	4 1/2"	1 1/4"	2 7/8"	1P807	39.89	27.92	26.53	4 3/4"
B	1/50	1.5	75	5	5	4 1/2"	1 1/4"	2 7/8"	1P808	43.58	30.51	28.98	4 3/4"
C	1/10	4.5	330	4 3/4"	4 3/4"	4 1/2"	3/4"	2x2 1/2"	1P809	76.56	53.59	50.91	9

UNIVERSAL-TYPE MOUNTING BASE

\$13.00

Drilled to fit all Teel gear and centrifugal pumps, and motors recommended to power them. Sturdy, stamped steel construction. 22 L x 15 W x 1 1/2" H bed. 17" wide overall, including 1" flange at each side. Wide combination of pre-drilled holes makes base adaptable for use with variety of direct or belt driven equipment. Additional holes can be drilled if needed. Machine gray finish. Teel brand. Shpg. wt. 17 lbs.

No. 1P675. Pump Base. Retail \$18.57. Each \$13.93; lots 4, \$13.00



PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

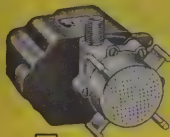
EPOXY-ENCAPSULATED SUBMERSIBLE PUMPS

180 to 300 GPH. Epoxy-Encapsulated 115V, 60 Hz Motors, Seal or Seal-Less Types

SEAL TYPE PUMPS For Submerged Duty Only

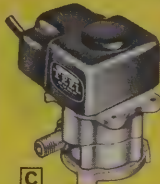


No. 1P597

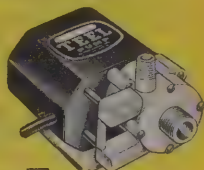


No. 1P598

MAGNETIC-DRIVE SEAL-LESS PUMPS For Submerged Or Open-Air Duty



No. 1P680



No. 1P681

TEEL

\$22.30

No. 1P597
Lots 6

Compact, corrosion-resistant, hermetically-sealed pumps for submerged use only—except Nos. 1P680 and 1P681 which are also suitable for open-air duty. Motors are encapsulated in epoxy resin with vacuum-impregnated motor coils for maximum protection against water, corrosives, dust and adverse ambients. 115V, 60 Hz. Thermally protected, except No. 1P680 which has impedance protected motor. Complete with 18/3, 6 ft. neoprene cord with 3-prong plug—motor connections sealed in.

Seal Type: Nos. 1P597 and 1P598 have stainless, spring-loaded Viton A rubber lip seal which provides resistance to wide range of mild chemical solutions, solvents, oils, etc. Motor shaft hardware of stainless steel—nylon pump housing, cover and impeller.

Seal-less Type: Nos. 1P680 and 1P681 are magnetic drive, without interconnecting shaft and seal, eliminating seal-caused friction loss, wear and leakage. Patented system uses powerful ceramic drive magnet encircling ceramic impeller magnet, permits impeller to operate friction-free of spindle; magnetic torque is 50% greater than motor running torque—preventing slippage of impeller magnet. Motor shaft hardware of stainless steel. Pump housing of No. 1P680 is ABS plastic Cyclocac; impeller is nylon. Pump housing cover and impeller of No. 1P681 are glass-filled polypropylene.

For Many Recirculating Applications: Refrigerated Equipment—juice dispensers, cold water bath equipment, ice makers, condensate removal, vending equipment, dehumidifiers, egg coolers, evaporative condensers, parts cleaners, aquariums, garden fountain, advertising displays, etc. Photographic Processors, both black-and-white and color. Chemical Solutions—plating, inks, dyes, light oils—except ferrous (magnetic) metals. Liquid-type office copiers. Sealed type only, is also suitable as coolant pump.

Note: Generally suggested for use with mild chemicals where solution will not etch, mild acids, alkalis or salt solutions up to 120°F, and pH factor of no less than 5 or greater than 9. However, when used with liquids other than water, factory warranty must be extended by application. Write or call nearest Grainger Sales Office/Warehouse for Pump Application Form No. 5S1763. Complete and return form, indicating chemical type, concentration, temperature, pH factor, pump use, etc. for warranty validation.

GPH AT TOTAL FEET OF HEAD

Fig.	HP	1'	2'	3'	6'	9'	12'
A	1/75	225	165	135	80	—	—
B	1/35	280	270	250	180	95	45
C	1/200	180	135	120	—	—	—
D	1/35	300	280	215	210	130	45

PUMP SPECIFICATIONS AND PRICES

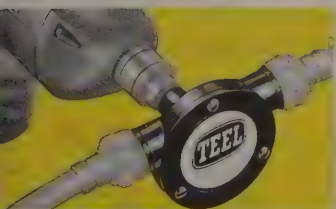
Fig.	HP	Inlet FPT	Outlet MPT	H	Dimensions Base	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
A	1/75	Screened	1/4"	4 3/8"	3 1/4" x 4 1/4"	1P597	\$34.31	\$24.02	\$22.30	3 3/4"
B	1/35	3/8" & Screen†	1/4"	3 3/8"	4 1/4" x 4 5/8"	1P598	39.32	27.52	25.56	3 3/4"
C	1/200	1/4" & Screen§	1/4"	3 3/8"	3 x 3 3/8"	1P680	36.88	25.82	23.97	3
D	1/35	3/8"	1/4" x 1/2"	4"	4 1/4" x 6"	1P681	57.99	40.59	37.69	5

(*) Dual threaded; 3/8" ID x 3/4" OD. (†) Remove screen to use threaded inlet.

(§) 1/4" adapter supplied for installation in port covered by screen.

TEEL 200 GPH DRILL-DRIVEN SELF-PRIMING PUMP KIT

Drains Engine Oil, Aquariums, Washers, Sinks, Bilges, Pool Covers, Machinery Sumps, Etc.



\$4.80

Lots 3

Powered by user's 1/4" or 3/8" electric drill—drains oil from auto, marine and garden equipment engines, removes water from aquariums, washers, sinks, pool covers, window wells, bilges, machinery sumps, dairy equipment, furnace pits, etc., transfers chemical solutions compatible with pump materials. Not for gasoline or aromatic solvents. Self-primers 8 to 10 ft. Delivers up to 200 GPH, at 2000 RPM. Max. pressure 20 PSI. Liquid temp. 40 to 180°F. Phenolic plastic body, Buna N impeller, seal and "O" ring, 1/4" dia. stainless steel shaft. 3/4" male hose thread inlet & outlet. Kit includes pump and 3 ft. of plastic tubing for changing oil. Drill not included. Teel brand. Shpg. wt. 1 1/2 lbs.

No. 1P866. Retail \$6.85. Each \$5.14; lots 3.....\$4.80

SEE WARRANTY INFORMATION ON PAGE 684

LITTLE GIANT COMPACT SUBMERSIBLE PUMPS

170 to 810 GPH Units. Hermetically Sealed 115V, 60 Hz Motors. All UL Listed except No. 1P553



Strainer included with all but No. 1P553

For Submerged Use Only



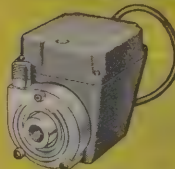
No. 1P553 **A**



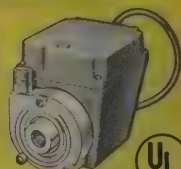
No. 1P321 **B**



C
No. 1P372



D
No. 1P323



E
No. 1P322



No. 1P553
\$17.15
Lots 4
Compact, low-pressure, high-volume centrifugal pumps widely used in evaporative coolers, fountains, displays, beverage coolers, aquariums, coolant systems. Nos. 1P553 and 1P321 operate in or completely under water or other liquids; others may be operated submerged or in open air. Handle liquids compatible with pump materials, up to 160°F. 115V,

60 Hz motor, hermetically sealed in lifetime supply of oil. Double-lip type seal on stainless motor shaft. Die-cast, aluminum motor housing, epoxy finish. Pump volute and impeller made of nylon. 6 ft., 3-conductor cord set. No. 1P553 has 3-ft., 3-conductor cord set.) All models except No. 1P553 come with strainers. All models UL listed except No. 1P553, this model has component recognition only. Little Giant brand.

PUMP CAPACITIES WITH INLET—OUTLET SIZES

Fig.	Stock No.	Inlet FPT	Outlet MPT	Delivery in G.P.H.							Max. Head	Equiv. PSI
				1'	3'	5'	8'	11'	13'	22'		
A	1P553	Smooth	1 1/2"	170	127	70	—	—	—	—	6.2	2.7
B	1P321	Hooded	1 1/2"	300	255	205	115	55	—	—	11.1	4.8
C	1P372	3/8"	1 1/2"	300	255	205	115	55	—	—	11.1	4.8
D	1P323	1/2"	1 1/2"	500	450	337	249	205	163	—	16.2	7.0
E	1P322	1/2"	1 1/2"	810	780	745	625	550	475	80	24.3	10.5

COMPACT SUBMERSIBLE PUMP PRICES & DIMENSIONS

Fig.	Motor HP	DIMENSIONS			Mfrs. Model	Stock No.	Retail		Lots 4	Shpg. Wt.
		Height	Width	Length			Each	Each		
A	1/200	4"	4"	4"	1-AA	1P553	\$24.50	\$18.38	\$17.15	3
B	1/40	4 1/4"	4 3/4"	3 1/2"	2E-N	1P321	34.20	25.65	23.94	5
C	1/40	4 1/4"	4 3/4"	3 1/2"	2E-38N	1P372	35.40	26.55	24.78	5
D	1/15	6 3/8"	6"	4 3/8"	3E-12N	1P323	56.10	42.08	39.27	8
E	1/12	6 3/8"	6 1/4"	5"	4E-34NR	1P322	79.20	59.40	55.44	7

250 GPH SUBMERSIBLE MILD CHEMICAL PUMP

For Fruit Juices, Mild Acids and Alkalis. 2 Double-Lip Viton Seals. Nylon Head. Hermetically Sealed



No. 1P521
\$32.65
Lots 6

Non-corrosive, non-toxic Little Giant centrifugal pump designed for circulating or dispensing fruit juices, beverages or other mildly acid or alkaline liquids with a pH range of 5 to 9, such as cleaning solutions, photo processing solutions, machine coolants, etc. at up to 160°F. Entire pump may be submerged for pumping, or liquid being pumped may be piped through pump head only. Pump head and impeller made of acid-resistant Nylon. Stainless steel backplate and 2 double-lip Viton seals on stainless motor shaft insure maximum protection to liquid being pumped. Three wing nuts allow removal of pump face plate for ease in cleaning. 1/55 HP, 115V, 60 Hz motor operates in oil and is hermetically sealed in die-cast aluminum housing. Epoxy coated, with double prime base coats.

PUMP PERFORMANCE

CAPACITY, GPH			
1 ft.	3 ft.	5 ft.	9 ft. 12 ft.
250	217	180	108 Shut-off

3/8" IPT female inlet, plus adapter with ferrule to accept 1/2" plastic tubing. 1/4" IPT male outlet. Beige finish. 4 1/2 H, 5 1/2 L, 3" W. UL & CSA listed. Little Giant brand. (2E-NDVR) Shpg. wt. 5 lbs.

No. 1P521. Submersible Mild Chemical Pump. Retail \$46.65. Each \$34.99; lots 6.....\$32.65

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

You'll like what you see at Grainger's—the large, well-kept stock—the well-informed men and women who serve you.



So, the next time you need something, come in and see how well we are set up to give you quick, competent service.

PUMP & AIR COMPRESSOR PRESSURE CONTROLS

SQUARE D®



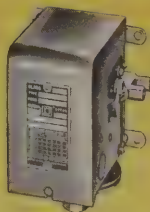
A



B



C



D

SquareD pressure controls for water systems and air compressor applications. Popular FSG-2 controls for water pumps have factory-installed pulsation plug that assures proper cycling. No. 4X789 offers low pressure cut-off feature which stops pump automatically when pressure drops to 10 PSI due to low water level in well. Has

manual on-off-reset arm. Air compressor controls range up to 250 PSI. Controls are 2-pole type with positive quick make-and-break contact action. NEMA 1 size enclosure has ½" openings and ample wiring space, blue gray finish. Lower female ¼" NPT connection. UL listed. Individually cartoned.

PRESSURE CONTROLS FOR PUMPS

Fig.	PSI Range	Square D No.	Adjustable Diff. PSI Min. Max.		Factory Set PSI ON OFF		RATING in HP				Stock No.	Each	Standard Cartons			Shpg. Wt.	
							Single Phase AC	115V	230V	Poly-phase AC			115V	230V	Lots 4		Lots 6
A	20-65	FSG-2 Form P	10	30	20	40	1	1	1	1	1	4X046	\$4.21	—	—	\$3.92	1¼
	20-65	FSG-2 Form P	10	30	30	50	1	1	1	1	1	6X535	4.21	—	—	3.92	1¼
	20-65	FSG-2 Form MIP	10	30	20	40	1	1	1	1	1	4X674*	5.33	—	\$4.85	—	1¼
	20-65	FSG-2 Form MIP	10	30	30	50	1	1	1	1	1	6X536	5.33	—	4.85	—	1¼
	20-65	FSG-2 Form M4P	10	30	20	40	1	1	1	1	1	4X789x	6.25	—	5.69	—	1¼

PRESSURE CONTROLS FOR AIR COMPRESSORS

40-100	HHG 2	17 34	80 100	1 1	1 1	1 1	1 1	4X675	6.52	—	5.94	—	1 ½
40-150	HHG 12	27 40	90 125	1 1	1 1	1 1	1 1	4X676	6.52	—	5.94	—	1 ½
80-150	HHG 12 Form X	27 40	90 125	1 1	1 1	1 1	1 1	4X677‡	8.52	—	7.76	—	1 ½
60-200	GHG-2	18 40	145 175	2 3	3 3	5 5	5 5	4X678	13.24	\$12.06	—	10.49	2 ½
60-200	GHG-2 Form X	18 40	145 175	2 3	3 3	5 5	5 5	4X679‡	17.89	16.28	—	14.17	2 ½
25-250	ASG-11 Form FX	18 45	145 175	2 3	3 3	5 5	5 5	4X680/	25.84	23.52	—	20.48	5

Has manual on-off knob. (‡) Has unloader valve for easy motor starting. (#) Has 2-way unloader valve. Has automatic low pressure cut-off at 10 PSI; manual on-off-reset.

No's. 4X678, 4X679, 4V680 also rated 5 HP, 440-550 VAC, single or polyphase.

No. 4X169. SquareD Contact Assembly Service Kit For all FAG-2 pressure switches listed. Mfr. Model 9998, type PC-10, for use only with units manufactured after July 1, 1965. Individually cartoned. 4 oz. Retail \$6.40. Each \$2.54; lots 20.....\$2.33

SUMP PUMP SWITCH

Teel Pump Nos. 3P585, 3P586, 3P587, 3P588

\$3.48

Lots 3

Replacement switch for Dayton sump pump motors, models 6K266 and 6K287, used on Teel sump pump models 3P585, 3P586, 3P587, and 3P588. Corrosion resistant construction. Rated at 5 amp, 220 VAC, 10 amp, 125 VAC, 1/3 HP. SPST. Stainless steel attachment plate

d operating lever. Shpg. wt. 4 oz.

1R225. Replacement Sump Pump Switch. Retail \$5.35. Each \$3.75; lots 3.....\$3.48



SQUARE-D FLOAT SWITCH

For Float and Rod Operated Sump Pump

\$6.40

No. 2X922

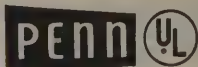
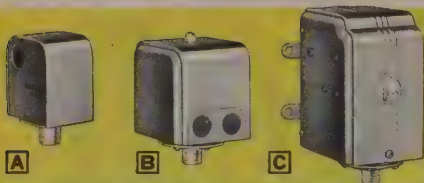


Famous for dependability Square D switch for practically all sump pumps operated with float and rod. Positive-action lever for up to ¼" float rod. Double break, silver

contacts rated at 1/2 HP, 115/230V, AC; 1/4 HP, 32/115V, DC. Force to close—5¼ ozs.; force to open—7 ozs. Attractive metal case, 4½ W x 2½ H x 2" D. Has slip-on cover for easy wiring. Can be mounted direct to motor junction box with ½" conduit bushing. (KG12S1). Shpg. wt. 12 ozs.

No. 2X922. Retail \$9.70. Each.....\$6.40

PUMP AND AIR COMPRESSOR PRESSURE CONTROLS



The job-proven controls for water systems, etc., 1 HP and up to 80 PSI; and air line of pressure compressors thru 5 HP, and 250 PSI. 1/4" NPT connection. Equipped with pulsating plug to assure proper cycling. Switches are 2-pole type with snap-action contacts. NEMA 1 size enclosure, corrosion resistant, gray enamel finish. UL listed. Individually cartoned.

PUMP AND LIGHT-DUTY AIR COMPRESSOR CONTROLS

Fig.	PSI Range	Penn No.	Adjustable Diff. PSI Min. Max.	Factory Set PSI On Off	RATING IN HORSEPOWER						Stock No.	Retail Each Lots 3			Shpg. Wt.
					Single Phase AC 440/			Polyphase AC 440/							
					115V	230V	550V	115V	230V	550V					
A	15/65	P61AA	15 30	20 40	1	1	—	1	1	—	4X100	\$9.00	\$4.35	\$4.04	1

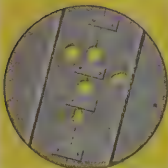
AIR COMPRESSOR PRESSURE CONTROLS

B	20/200	P16AA	24 66	120 150	2	3	5	3	5	5	1X390	\$25.90	\$13.03	\$12.10	2 1/2
B	20/200	P16BB	24 66	120 150	2	3	5	3	5	5	4X108†	34.95	17.80	16.53	3
C	10/250	P11BB	26 56	120 150	2	3	3	—	5	5	1X486†	45.80	27.02	25.09	4

(†) Has unloader valve for easy motor starting. (‡) Has 2-way unloader valve.

22" SUMP PUMP PIT COVER

Will Fit 18" Drain Tile. Steel Construction



\$4.06 Required to meet sanitary codes in many areas. Fits Lots 6

Teel vertical sump pump Nos. 3P544, 3P545, 3P585, 3P586, 3P587 and 3P588, also adaptable for use with submersible pumps, Nos. 3P511, 3P530, 3P576, 3P579, 3P589, 3P590 and other standard models.

Made of corrosion-resistant 16 ga. galvanized steel. Cover comes in two interlocking sections. Has holes for pump, discharge pipe and float rod. 22" dia. for 18" drain tile and other pits. Shipped unassembled with hardware. Teel brand. Shpg. wt. 7 lbs.

No. 1P697. Retail \$5.80. Each \$4.35; lots 6...\$4.06

AIR VOLUME CONTROL



\$3.19 Diaphragm type air volume control for water system pressure tank. No. 1P367

Control maintains required volume of air in tank to pressurize water system. Insufficient air causes frequent cycling of pump and inadequate water flow. As air is required, spring loaded diaphragm is drawn back by vacuum from tube connected to suction side of pump. When pumping action stops, air is charged into the tank. When sufficient air pressure is reached, orifice bushing in control prevents more air from entering tank. Die cast construction. Attaches to threaded port in tank. Use in systems with operating pressures of 20-40 PSI. Shpg. wt. 1 lb.

is required, spring loaded diaphragm is drawn back by vacuum from tube connected to suction side of pump. When pumping action stops, air is charged into the tank. When sufficient air pressure is reached, orifice bushing in control prevents more air from entering tank. Die cast construction. Attaches to threaded port in tank. Use in systems with operating pressures of 20-40 PSI. Shpg. wt. 1 lb.

Tank Size Gallons	Back Connection	Stock No.	Retail	Each	Lots 3
42	1/4" MPT	1P367	\$5.90	\$3.42	\$3.19
70	1/2" FPT	1P368	8.80	5.10	4.75
17-70	3/8" MPT	1P527	5.60	3.25	3.02

Let Grainger Supply Your Pump Needs

PENN SUMP-FLOAT SWITCH

2-Pole Switch. Universal Mounting Bracket



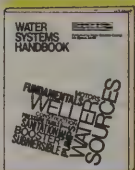
\$5.43 Operates on a "liquid level" principle. Switch remains open by spring tension until water rises and exerts lift on upper weight starting the pump automatically. Pump shuts off when water drops below the lower weight. Uses two adjustable weights, slightly heavier than water, mounted on 3/8" plastic cable. Easily adjusted for cut-in and cut-out level. 2-pole, heavy-duty snap-action switch.

with silver contacts rated 1 HP, 115/230V, AC; 1/4 HP, 32V, DC. Non-corrosive parts, box and brackets for external mounting. 2 1/2" W x 2 1/4" H x 1 1/2" D (F59A-7). Shpg. wt. 1 1/4 lbs.

No. 4X173. Retail \$11.40. Each \$5.79; lots 6...\$5.43

WATER SYSTEM HANDBOOK

For Pump Installers, Schools, Industry, Etc.



\$4.50 Essential data on selection, installation and maintenance of private water systems. Covers well construction and drilling, pump installation, electric controls and motors, pressure tanks and controls, water supply and treatment. Illustrated. 8 1/2 x 11". Published by the Water Systems Council. Shpg. wt. 9 oz.

No. 4X391. Each \$4.50

Motor Replacement Parts Available

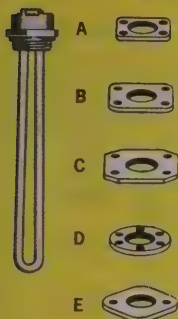
A large stock of replacement parts for Dayton single phase motors is maintained in Chicago. Parts for other brand motors listed in Grainger MotorBook are available on special order.

Specify model number of unit, and give full description of part needed. Send orders to nearest Grainger address for fastest service.

CHROMALOX SCREW-IN WATER HEATER ELEMENTS

\$3.42

No. 2E304
Element



FLANGES

Replace 98% of 1" Screw-In or Flanged Immersion-Type Elements

With Chromalox Adapt-O-Matic Elements and Adapt-O-Flanges (See flange listing A thru E below.) you can maintain minimum inventory yet be able to replace 98% of flanged or 1" screw in elements. From selection of 8 elements and 5 flanges, any flanged element can be replaced using the correct combination. Adapt-O-Matic elements without flanges fit newer style water heaters with 1" screw-in elements. Low watt density (approx. 75W/sq. in.). Copper-sheath element is tin electroplated to resist corrosion—eliminates costly callbacks. Stock your shelves and service trucks now.

CHROMALOX ADAPT-O-MATIC ELEMENTS—LESS FLANGES

Watts	Volts 60 Hz	Insert Length	Chromalox Model No.	Stock No.	—Priced Less Flange—		Shpg. Wt.
					Retail	Each	
1500	120	10- $\frac{1}{4}$ "	AL-1715	2E295	\$6.90	\$4.55	1
750	240	7- $\frac{5}{8}$ "	AH-1707	2E296	5.20	3.42	1
1000	240	7- $\frac{5}{8}$ "	AH-1710	2E297	5.90	3.89	1
1500	240	10- $\frac{1}{4}$ "	AH-1715	2E298	6.65	4.39	1
2000	240	13- $\frac{1}{4}$ "	AH-1720	2E299	6.90	4.55	1 $\frac{1}{2}$
2500	240	9- $\frac{7}{16}$ "	AH-2725	2E300	7.55	4.98	1 $\frac{1}{2}$
3000	240	11- $\frac{1}{16}$ "	AH-2730	2E301	7.80	5.15	1 $\frac{1}{2}$
3500	240	13- $\frac{1}{4}$ "	AH-2735	2E302	7.35	4.83	1 $\frac{1}{2}$
4500	240	13- $\frac{1}{4}$ "	AH-2745	2E303	8.60	5.68	1 $\frac{1}{2}$

CHROMALOX ADAPT-O-FLANGES FOR ABOVE ELEMENTS

A Square flange—2 1/2" bolt circle—1 1/4" centers—most widely used flange design. Includes general purpose gasket, plus gasket for twist-lock and Chromalox TGA replacements. 8 oz. (ADF-1).

No. 2E304. Retail \$2.15. Each.....\$1.42

B Square flange—2 3/4" bolt circle—1 1/2" centers—fits Westinghouse and others. Gasket included. 4 oz. (ADF-2).

No. 2E305. Retail \$3.00. Each.....\$1.98

C Square flange—3 3/4" bolt circle—2 1/2" cen-

ters—fits Thermogray and other Frigidaire water heaters. Gasket included. 11 oz. (ADF-3).

No. 2E306. Retail \$3.00. Each.....\$1.98

D Round flange—2 1/2" bolt circle—1 1/4" centers—fits 6-bolt White water heaters. Gasket included. 4 oz. (ADF-4).

No. 2E307. Retail \$3.75. Each.....\$2.47

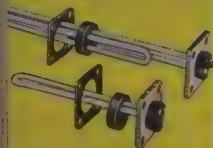
E Oval flange—3 3/4" bolt centers—fits several makes of older water heaters. Gasket included. 12 oz. (ADF-5).

No. 2E308. Retail \$3.75. Each.....\$2.47

CHROMALOX BOLT-ON WATER HEATER ELEMENTS

\$3.54

75W



These universal immersion-type electric water heater elements will replace about 80% of the elements in use today. Fits all tank flanges that have 4 bolt holes on 2 1/2"

circle. Will replace General Electric, Heatube, Thermalink, Tuttle and Kift and Vulcan water heater elements that have 4 bolt holes on 2 1/2" circle. Can be used in galvanized, stone-lined and glass-lined tanks. Low watt density (approx. 75 watts per sq. in.) elements assure longer life both hard and soft water. TGA, models listed supersede Chromalox models TF, TFI, TG, TRF, FI, TTRF, TSF and RTSF. Element comes complete with two types of gaskets. However, only one gasket is required for proper installation.

For 2 1/2" Circle, 4-Bolt Flanges. 750 to 4500 Watts, 120 or 240V, Low Watt Density

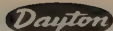
Watts	Type	Insert Length	Stock No.	Retail	Each	Shpg. Wt.
120V, 60 Hz ELEMENTS						
1500	Straight	10 $\frac{1}{8}$ "	2E102	\$7.10	\$4.69	1 $\frac{1}{4}$
240V, 60 Hz ELEMENTS						
750	Straight	7 $\frac{5}{8}$ "	2E044	\$5.40	\$3.54	1
1000	Straight	7 $\frac{5}{8}$ "	2E045	6.02	3.97	1
1500	Straight	10 $\frac{1}{8}$ "	2E046	6.85	4.52	1
2000	Straight	13 $\frac{1}{8}$ "	2E047	7.10	4.69	1
2500	Fold-Back	9 $\frac{3}{4}$ "	2E105	7.50	4.95	1 $\frac{1}{4}$
3000	Fold-Back	11 $\frac{1}{2}$ "	2E048	8.05	5.31	1 $\frac{1}{4}$
4500	Fold-Back	13 $\frac{1}{4}$ "	2E049	8.85	5.84	1 $\frac{1}{2}$

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

You'll like what you see at Grainger's—the large, well-stocked—the well-informed men and women who serve you.

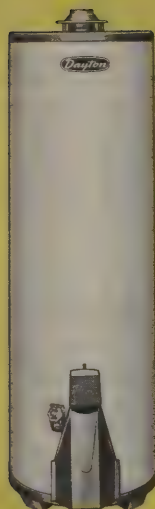


So, the next time you need something, come in and see how well we are set up to give you quick, competent service.



RESIDENTIAL AGA CERTIFIED GAS and

Natural & LP Gas Models. Glasslined Tanks. High Recovery
AGA Certified. Safety Controls with Full Pressure Regulation

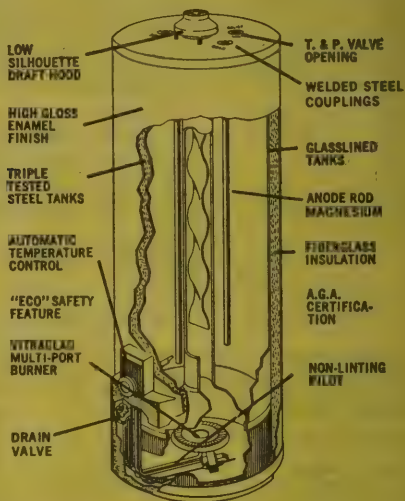


\$97.49

30 Gal.



**Prepaid Freight
on Shipments of
300 Lbs. & Over**



Top quality, automatic controls, high recovery rates, and fuel-conserving design combined with outstanding low prices make Dayton water heaters easy to sell, keep users happy. Tanks are glasslined to assure clean water and years of maintenance free performance. 300 PSI test pressure, 150 PSI working pressure. Magnesium anode prolongs tank life, retards corrosion. High-quality materials throughout.

Corrosion resistant steel burner ignites fast, provides uniform gas porting and even, efficient combustion. Flame spreader above burner (30, 40, 50 gallon models) assures uniform heat transfer with no hot spots. Large access doors permit easy pilot lighting. Thermocouple is snap-out type. Control has both pilot and main burner regulation. Automatic over-temperature "Energy Cut-off" device automatically shuts off

gas to pilot and burner if water temperature exceeds safe limits. Spiral flue baffle increases heater efficiency. Heavy gauge steel construction. Glass fiber insulating blanket retains heat, conserves fuel.

Heaters are AGA certified for natural and LP gas. All models are equipped with gas pressure regulator as required by ANSI standards. $\frac{3}{4}$ " NPT port mounted water connections. Separate T & P valve tapping at top of tank. $\frac{1}{2}$ " NPT gas connection. $\frac{3}{4}$ " NPT side-mounted drain valve.

LIMITED WARRANTY

Entire heater replaced if tank proves defective within 5 years after installation; all other parts warranted for 2 years. See Limited Warranty Policy in Index.

NATURAL GAS WATER HEATERS

Tank Gals.	Recovery GPH @ 100°F Rise	BtuH Input	H	Dia.	Stock No.	Retail	Each	Shpg. Wt.
30	38.6	46,000	59 $\frac{3}{4}$ "	18"	3E103	\$161.67	\$97.49	125
40	40.3	48,000	60 $\frac{1}{4}$ "	18	3E104	177.22	106.86	141
50	54.6	65,000	62 $\frac{3}{4}$ "	20	3E105	224.44	135.34	179
75	63.0	75,000	64 $\frac{1}{2}$ "	24	3E106	423.33	255.27	247

LP GAS WATER HEATERS

Tank Gals.	Recovery GPH @ 100°F Rise	BtuH Input	H	Dia.	Stock No.	Retail	Each	Shpg. Wt.
30	31.1	37,000	59 $\frac{3}{4}$ "	18"	3E107	\$161.67	\$97.49	127
40	35.3	42,000	60 $\frac{3}{4}$ "	18	3E108	177.22	106.86	141

ASME/AGA RATED TEMPERATURE & PRESSURE RELIEF VALVE

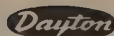
Recommended for all water heater installations. ASME rated for 450,000 BtuH, AGA rated for 100,000 BtuH. Meets latest ASA, NBA, CGA & FHA standards.

Factory set for 210°F, 150 PSI. $\frac{3}{4}$ " NPT inlet

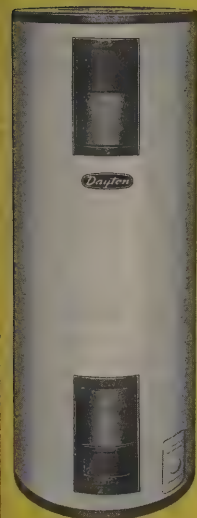
and outlet. 5" L sensing element extension. Durable brass body with stainless steel spring and silicon bib washer. Manual relief lever for flushing. Shpg. wt. 1 lb.

No. 4X563. Ret. \$5.30. Each \$4.19; lots 6.....\$3.98

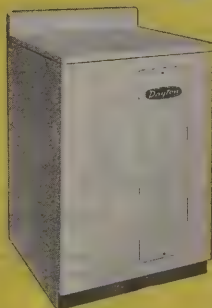
UL LISTED ELECTRIC WATER HEATERS



Standard Upright, Low-Boy & Table Top Models. Glasslined Tanks
Low-Watt-Density Elements for Long Life. High Limit Control



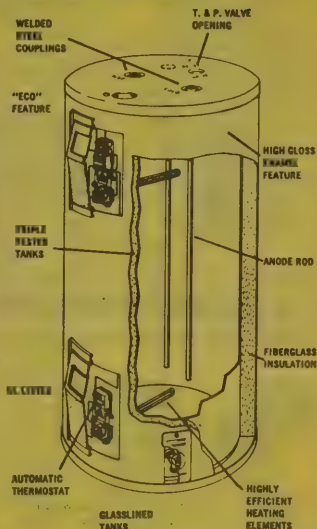
\$88.10
30 Gal.



**TABLE-TOP
MODELS**

**UPRIGHT
& LOW-BOY
MODELS**

**Prepaid Freight
on Shipments of
300 Lbs. & Over**



Designed and built to provide years of automatic, trouble-free hot water service at low initial cost and minimum operating expense. Handsome, trim, low over-all construction. Easy to install, maintenance free. Heavy gauge, arc welded steel, glasslined tank. 300 PSI test pressure, 150 PSI working pressure. Magnesium anode rod prolongs life of tank, retards corrosion. High-quality materials throughout.

Efficient immersion type heating elements. 10-170°F range thermostats with energy cut-off device which cuts off all power to heater before water temperature reaches 210°F. Wired for waterlock use; can be easily changed in the field

for simultaneous operation where utility companies and wiring conditions permit (up to 9,000 watts max.). Heavy gauge steel jackets finished in high-gloss white baked-on enamel. Blanket-type glass fiber insulation. 3/4" NPT top mounted water connections. Handy 3/4" NPT drain valve. Electrical connections easily accessible. 240/208V single phase. UL listed.

LIMITED WARRANTY

Entire heater replaced if tank proves defective within 5 years after installation; all other parts warranted for 2 years. See Limited Warranty Policy in Index.

UPRIGHT ELECTRIC WATER HEATERS

Tank Gals.	Recovery GPH @100°F Rise (°)		Element Upper	Watts(*) Lower	—Dimensions—			Stock No.	Retail	Each	Shpg. Wt.
	Simultaneous	Interlocking			High	Dia. or Width	Depth				
30	8.2	5.1	1250	750	37 3/8"	20"	Diameter	3E114	\$146.11	\$88.10	105
42	10.2	6.1	1500	1000	47 1/4"	20"		3E115	168.89	101.84	122
52	10.2	6.1	1500	1000	50 5/8"	22"		3E116	194.44	117.25	153
82	16.4	10.2	2500	1500	62"	24"		3E117	281.11	169.51	214

HIGH RECOVERY UPRIGHT ELECTRIC WATER HEATERS

30	36.9	18.4	4500	4500	37 3/8"	20"	Diameter	3E118	\$146.11	\$88.10	104
42	36.9	18.4	4500	4500	47 1/4"	20"		3E119	168.89	101.84	123
52	36.9	18.4	4500	4500	50 5/8"	22"		3E120	194.44	117.25	151
82	36.9	18.4	4500	4500	62"	24"		3E121	281.11	169.51	216

HIGH RECOVERY LOW-BOY ELECTRIC WATER HEATERS

40	36.9	18.4	4500	4500	31 1/4"	24"	Diameter	3E135	\$178.33	\$107.53	123
50	36.9	18.4	4500	4500	31 1/2"	26"		3E136	203.33	122.61	149

HIGH RECOVERY TABLE-TOP ELECTRIC WATER HEATERS

40	36.9	18.4	4500	4500	36"	21" W x 25" D		3E122	\$231.11	\$139.36	149
50	36.9	18.4	4500	4500	36"	24" W x 25" D		3E123	262.22	158.12	177

) At 240V. Operation on 208V will result in approximately 25% lower recovery rate and element watts.

SEE WARRANTY INFORMATION ON PAGE 684

6 to 30 GAL. ELECTRIC COMPACT WATER HEATERS

For Confined Areas. Low-Watt-Density Elements. On-Off Switch



Dayton

\$59.96

6 Gal.

For use where space is limited as in cottages, mobile homes, washrooms, stores, service stations, etc. Heavy duty glasslined tanks rated at 300 PSI test pressure, 150 PSI working pressure. Magnesium anode rod prolongs tank life, retards corrosion. Immersion type heating element. 110°-170°F range thermostats with high limit control. White enamel finish. ¾" NPT side-mounted water fittings. ¾" NPT T & P valve tapping on side. 120V, except No. 3E113 which is for 220/208V. UL listed.

LIMITED WARRANTY

Entire heater replaced if tank proves defective within 5 years after installation; all other parts warranted for 2 years. See Limited Warranty Policy in Index.

Tank Gals.	Recovery @ 100°F Rise	GPH	Volts	Watts	No. of Elements	H	Stock Dia.	No.	Retail	Shpg. Each	WT.
6	6.7	120	1650	1	16½"	14"	3E109	\$99.44	\$59.96	41	61
10	6.7	120	1650	1	17	16	3E110	104.67	83.12	50	60
20	6.7	120	1650	1	21½"	20	3E111	126.67	76.38	80	100
30	8.2	120	2000	1	29½"	20	3E112	137.22	82.74	100	100
30	16.4	220/208	2000/2000	2	29½"	20	3E113	143.89	86.77	101	101

CYCLING THERMOSTAT

For Electric Water Heaters. 110° to 170°F



Dayton

\$4.70

No. 2E050

Dayton universal replacement thermostats for electric water heaters. Adj. 110° to 170°F. Can be screw or clamp-mounted. UL listed. 3 oz.

Switch Action	Stock No.	Rating AC 240V	120V	Circuit Opens
Single Pole	2E050	6000W	3000W	On Rise
Double Pole	2E051	6000W	3000W	(#)

(#) Circuit 1, on rise; Circuit 2, on fall; one set ea., normally open & closed interlocked contacts.

Switch	Stock No.	Retail	Each
SP	2E050	\$9.40	\$4.70
DP	2E051	10.60	5.30

HIGH LIMIT CONTROL

For Electric Water Heaters. 190°F



Dayton

\$4.10

Dayton limit control is accepted as standard for water heater protection. Manual reset. Operating temperature 190° ±5°F. 40 amp 120-240VAC. 25 amp 241-480VAC.

Underwriters Lab. requires use of this type control on all electric water heaters made after October 15, 1964. UL listed. Shpg. wt. 6 oz.

No. 2E104. Retail \$8.20. Each.....\$4.10

10 to 36" CIRCULATORS STOCKED



You can get Air Circulator fans with 10 to 36" blades from Grainger's large stock. Fans come either unassembled, for economy, or as built-up counter and floor models. You have a wide choice of motors and air delivery. We also stock a wide range of fan parts for replacement or building new fans—and the largest in-stock

line of fan blades and fan motors in the business. See Index under Fans, Circulator.

PRESSURE RELIEF VALVE

Approved Automatic Reseating Temperature & Pressure Relief Valve for Heating Equipment



RATING and APPROVAL

AGA RATING: 100,000 BtuH

ASME RATING: 450,000 BtuH

MEETS ASA, NBA, CGA

and FHA STANDARDS

APPROVED 1965 RATINGS

\$3.98

Lots 6

Extremely accurate relief valve for automatic protection of hot water heaters, boilers, steam cleaners, beverage dispensers, power sprayers, coffee urns, etc. Factory set for 210°F, 150 PSI, ¾" NPT inlet and outlet, and 5" extension tube. Durable brass construction with stainless steel spring and special silicon bib washer. Accurate, dependable thermal element. Test lever allows flushing to remove foreign particles. Shpg. wt. 1 lb.

No. 4X563. Retail \$5.30. Each \$4.19; lots 6, \$3.98

SAFE-HETE WATER HEATER

Immersion Type. UL Listed. 1150W Element



No. 1E951

\$10.92

Can be used wherever cit code requires UL listed electric appliances—safe and portable. Will heat one gallon of water from 45° to 90°F in 10 minutes at room temperature. Can be immersed in any temperature water. 1150 watt, 115V, AC heating element in aluminum enclosure. 5" dia. x 10" H. 6 ft. 16/2 SJT cord set. Electra brand. (1150). Wt. 1½ lbs.

No. 1E951. Safe-Hete Water Heater. Retail \$13.65. Each.....\$10.92

ORDER BY PHONE—YOU SAVE TIME



You can often save days by phoning in your orders. Your Grainger sales staff can generally ship same day if called before 3:00 P.M. They will cooperate in every way possible to get items to you when you need them. Give us a call—put Grainger service to work for you.



COMMERCIAL WATER HEATERS

For Volume Demands in Restaurants, Schools, Factories, Car Washes, Laundries, etc.

75 to 80 GAL. GAS COMMERCIAL WATER HEATERS

\$293.79

75 Gal.

75,000 to 199,900 BtuH input with high recovery rates. Design is AGA certified for 180°F operation and 150 PSI working pressure; natural gas only.

Silent, efficient burners provide uniform distribution of heat to tank bottom. No. 3E124 & 3E125 have tubular battery burners contained in an easily-removed, single-unit tray; No. 3E126 utilizes a 40-port radial burner. Draft hoods are vertical.

Extra heavy duty, electrically welded steel tanks are individually hydrostatically tested. All heater tanks are glasslined for long, dependable life. Magnesium anode rods retard corrosion, prolong tank life. Blanket-type glass fiber insulation, 2" thick. Hand clean-out opening provides access to tank for easy removal of mineral deposits; opening cap is bolted on for watertight seal. Temperature and pressure relief valve included with all units. Safety control automatically shuts off gas to main and pilot burners in event of pilot failure. Heavy gauge steel base and legs.

Top or side water connections on Nos. 3E124 and 3E125, top connections on No. 3E126. ¾" drain valve on all models. High-gloss gray baked enamel finish. Nos. 3E124 and 3E125 gas commercial water heaters are design certified by the American Gas Association Laboratories and are constructed in accordance with Standard No. 5 of the National Sanitation Foundation for use with all types of dishwashing equipment.

Prepaid Freight on Shipments of 300 Lbs. and Over

LIMITED WARRANTY

Entire heater replaced if tank proves defective within 3 years after installation; all other parts warranted for 1 year. See Limited Warranty Policy in Index.

COMMERCIAL GAS

120 GAL. ELECTRIC COMMERCIAL WATER HEATERS

000/13,500 and 36,000/27,000W models. Where necessary, two or more heaters may be installed in series to meet hot water requirements. Heavy gauge, welded steel, glasslined, 120 gallon tanks; 150 PSI test pressure, 150 PSI working pressure. Magnesium anode rod protects against corrosion. All tanks are individually hydrostatically tested at the factory.

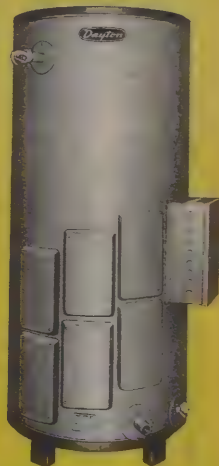
\$462.30

No. 3E128

Immersion type heating elements. Individual snapaction thermostat on each element. Elements are in banks of three for balanced load. Factory wired for three phase current, easily reconnected for single phase; diagram supplied. ASME-rated temperature and pressure relief valve factory installed. High limit control. 1¼" NPT inlet and outlet connections. ¾" NPT drain valve. Blanket-type glass fiber insulation. Heavy gauge steel jacket with high gloss gray baked on enamel finish. Electrical connections easily accessible. All are UL listed for 180°F outlet water temperature.

Dayton electric commercial water heaters are listed by the Underwriters Laboratories and are constructed in accordance with Standard No. 5 of the National Sanitation Foundation for use with all types of dishwashing equipment.

Prepaid Freight on Shipments of 300 Lbs. and Over



COMMERCIAL ELECTRIC

GAS COMMERCIAL WATER HEATER SPECIFICATIONS & PRICES

Tank Size	BtuH Input	Recovery GPH		Vent Dia.	High O'all	Leg Ht.	Tank Dia.	Inlet & Outlet NPT	Stock No.	Retail	Each	Shpg. Wt.
		@ 100°F Rise	@ 40°F Rise									
50	75,000	63	158	4"	63 1/2"	2"	24"	3/4"	3E126	\$487.22	\$293.79	255
75	180,000	151	378	5"	68 5/8"	5 1/4"	26"	1 1/4"	3E125	917.77	553.42	555
120	199,900	168	418	6"	67 7/8"	5 1/4"	26"	1 1/2"	3E124	941.10	567.48	532

120 GAL. ELECTRIC COMMERCIAL WATER HEATER SPECIFICATIONS & PRICES

Watts	Recovery GPH @ 100°F Rise	No. of Elements	H	Dia.	Stock No.	Retail	Each	Shpg. Wt.
208V 220/240V	208V 220/240V							
3,500 18,000	55.3 73.8	3	68 1/2"	28"	3E128	\$766.66	\$462.30	477
7,000 36,000	110.7 147.6	6	68 1/2"	28"	3E127	1006.10	606.68	484

SEE WARRANTY INFORMATION ON PAGE 684

1½ to 12 GPM IN-LINE TEEL WATER FILTERS

For Rust, Dirt, Taste and Odor Removal—Hot or Cold Water

COLD WATER FILTERS

\$22.22 For the filtering of household and small commercial water systems. No. 1P635 removes rust, silt, sand, and algae from system, No. 1P656 removes taste and odor of chlorine, iron, sulfur, etc. For larger home and commercial systems two filters may be installed in parallel or the No. 1P748 stainless steel water filter listed below, should be used. Easily installed on any new or existing water line. Comes equipped with cold water cartridge, ready for use. Rated for 125 PSI max. water pressure and 100°F max. temperature. Both units are 12½ H, 4½" diameter with ¾" NPT inlet and outlet. Replacement cartridges for rust and dirt, and taste and odor removal are listed below.

Function	Cartridges	GPM Flow	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Rust & Dirt	1	6	1P635	\$37.04	\$24.08	\$22.22	3
Taste & Odor	1	1½	1P656	40.58	26.38	24.35	3



No. 1P747



No. 1P748

COLD AND HOT WATER FILTERS

Stainless Steel Sump with Brass Head

\$52.12 For water systems in homes, apartments, small offices, hotels, motels, schools, and institutions. Cast brass 6 GPM, Lots 4 head and stainless steel sump allow filters to be used where unusually high pressures are common and to protect laundry machines and other hot water appliances from rust and scale. Corrosion-resistant materials also permit these units to be used aboard ships and boats. No. 1P748, double-cartridge filter is for use when extra-high flow is required. Both units equipped with cold water No. 1P753, rust and dirt cartridge; for hot water, order optional replacement cartridge No. 1P750; for cold water taste and odor removal, No. 1P754. Rated for 300 PSI max. water pressure, 100°F temperature when used with cold, and 210° max. temperature when used with hot water cartridges. Both are 4½" diameter with ¾" NPT inlet and outlet.

Function†	Cold Water* Cartridges	GPM Flow	High	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Rust & Dirt	1	6	12½"	1P747	\$86.87	\$56.46	\$52.12	4
Rust & Dirt	2	12	22½"	1P748	140.31	91.20	84.19	5½

† For taste and odor, order optional cartridge No. 1P754.

* For hot water, order optional cartridge No. 1P750.

REPLACEMENT FILTER CARTRIDGES

All filters are 9¾" high x 2¾" diameter with 1" center hole; fit Teel and most other filter units. Sold in cartons of 2, priced per carton.

Rust and dirt filtering cartridges made of white cellulose fibers with graduated density; collect particles as small as 5 microns (two ten-thousandths of an inch). Last for months under normal use.

Taste and odor filtering cartridges filled with activated charcoal. Max. temperature: cold water type, 100°F; hot water type, 210°F.

Cartridge For	Stock No.	Hot	Retail	Per Carton of Two	Each	Lots 4	Shpg. Wt.
Rust & Dirt	1P753	—	\$5.89	\$3.83	\$3.53	2½	
Rust & Dirt	—	1P750	6.87	4.46	4.12	1	
Taste & Odor	1P754	—	12.82	8.33	7.69	1½	

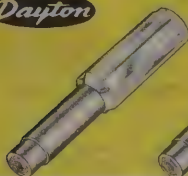


\$3.53

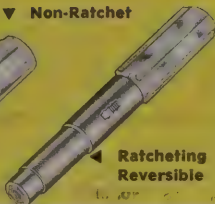
No. 1P753
Carton of Two,
Lots 4 Cartons



▼ Non-Ratcheting



▲ Ratcheting Reversible



SELF-ADJUST NUT DRIVER

Automatically Fits Hex Head Nuts up to 7/16" Available in Ratcheting & Non-Ratcheting Types

Automatically selects proper spring-loaded socket needed to turn hex head nuts, bolts or screws 1/4 through 7/16". Hollow core construction fits over bolt extensions up to 1½" long. Dayton brand.

Type	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
Non-Ratcheting	4X813	\$4.89	\$3.42	\$3.18	3 qt.
Ratcheting	4X957	7.94	5.56	5.16	2 qt.



DEPENDABLE WASTE DISPOSERS

Continuous-Feed Type. High Torque, 1725 RPM, 115V, 60 Hz Motors. Easily Installed. UL Listed

A AUTO REVERSING 1/2 HP DISPOSER

Deluxe Dayton disposer has extra long-life features. Tough hammermill impellers are heavy cast stainless steel, swivel 360° and are virtually jam-proof. Stainless steel grind ring and cutting plate with pre-cutter. Agitator bar keeps waste in motion for faster cutting. Heavy duty 1/2 HP motor with manual-reset thermal protection. Automatic reversing. Motor runs in opposite direction each time unit is started; doubles life of cutting components.

Triple water seal. Entire unit encased in heavy polystyrene jacket for extra-quiet operation. Stainless steel sink flange fits 3½ to 4" dia. sink openings. Single-bolt installation. Knockout for dishwasher drain. Chrome tailpiece and installation instructions included. Red and white polystyrene jacket. Waste outlet 7¾" OC below sink flange. Chrome plated stopper. 1½ H x 7½ W x 7¼ D. Shpg. wt. 20 lbs.

No. 5H019. Disposer. Retail \$117.92. Each **\$69.84**

AUTO-REVERSING 1/2 HP DISPOSER

\$69.84

No. 5H019

- 360° Swivel, Stainless Steel Impellers
- Stainless Steel Grinding Ring
- Stainless Steel Turntable
- Custom Deluxe Shell
- Large 54 Oz. Hopper



B SWIVEL-IMPELLER 1/2 HP DISPOSER

Fast cutting 90° swivel stainless steel impellers, stainless steel grind ring & zinc plated steel turntable. 1/2 HP motor has manual-reset thermal protection. Commercial type water seal protects against leakage at shaft. Cameo white polystyrene jacket with full-length acoustic insulation. Extra-large grinding compartment. Two-position stopper with chrome knob. Stainless steel sink flange fits 3½ to 4" dia. opening. Bolt mounting. Knockout for dishwasher drain. Tailpiece and installation instructions included. Waste outlet 7¾" OC below sink flange. 14½ H x 8¾" diameter. Shpg. wt. 20 lbs.

No. 5H124. Swivel-Impeller 1/2 HP Disposer. Retail \$95.25. Each **\$52.49**

SWIVEL-IMPELLER 1/2 HP DISPOSER

\$52.49

No. 5H124

- 90° Swivel Stainless Steel Impellers
- Stainless Steel Grind Ring
- Zinc Plated Turntable
- Large 54 Oz. Hopper



C FIXED-IMPELLER 1/2 HP DISPOSER

Unit features fast-cutting zinc plated steel impellers. Carbon steel grind ring, zinc plated steel turntable. 1/2 HP motor with manual-reset thermal protection. Commercial type water seal for protection against leakage at shaft. Cameo white polystyrene jacket with acoustic insulation. Stainless steel sink flange fits 3½ to 4" diameter opening. 3-Bolt mounting. Knockout for dishwasher drain. Tailpiece and installation instructions included. Waste outlet 6¾" OC below sink flange. 12¾ H x 6¾" diameter. Shpg. wt. 17 lbs.

No. 5H126. Fixed-Impeller 1/2 HP Disposer. Retail \$62.96. Each **\$39.31**

FIXED-IMPELLER 1/2 HP DISPOSER

\$39.31

No. 5H126

- Steel Impellers
- Steel Grind Ring
- Zinc Plated Turntable
- Short 38 Oz. Hopper



D FIXED-IMPELLER 1/3 HP DISPOSER

Sturdy dependability at a budget price. Carbon steel impellers and grind ring provide fast grinding action. 1/3 HP motor with manual-reset thermal protection. Commercial type water seal. Stainless steel sink flange fits 3½ to 4" dia. sink opening. 3-Bolt Mounting. Cameo white enameled aluminum alloy housing with knockout for dishwasher drain. Waste outlet 7" OC below sink flange. Two position stopper. Tailpiece and installation instructions included. 12¾ H x 6¾" diameter. Shpg. wt. 15 lbs.

No. 5H125. Fixed-Impeller 1/3 HP Disposer. Retail \$46.73. Each **\$30.65**

FIXED-IMPELLER 1/3 HP DISPOSER

\$30.65

No. 5H125

- Steel Impellers
- Steel Grind Ring
- Steel Turntable
- Short 38 Oz. Hopper



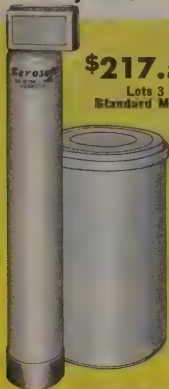
NEOPRENE RUBBER SPLASH GUARD

No. 5H447. Replacement guard for Dayton disposer models No. 5H019, 5H124, 5H125 and 5H126. Shpg. wt. 2 oz. Retail \$1.49. Each **\$1.04**



ZEROSOFT AUTOMATIC WATER SOFTENERS

24,000 AND 32,000 GRAIN RESIDENTIAL MODELS

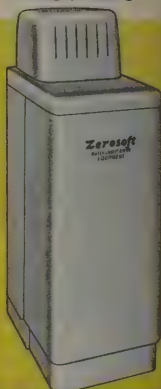


\$217.50

Lots 3
Standard Model

FEATURES

- **1 to 12 Day Adjustable Timer** activates the Regeneration Cycle and may be set to function at night. User selects frequency of automatic regeneration. Timers are adjustable for 1, 2, 3, 4, 6 and 12-day cycles.
- **5-Cycle Programmer Valve** controls 1-hour regeneration process of washing the resin, brining it, double flushing out excess salt. Automatic by-pass allows use of unsoftened water during a regeneration cycle.
- **Non-Corrosive Salt Storage Tank** has a brine valve that works with the programmer valve to take water from the incoming line, add it to stored salt and prepare a brine solution needed for next regeneration cycle.
- **Manual Regeneration Switch** allows user to start immediate regeneration cycle when larger than normal requirements are anticipated.
- **National Sanitation Foundation (NSF)** approved fiberglass softener tank. 100 psi maximum operating pressure.



STANDARD 24,000 GRAIN MODEL

8 GPM flow rate. 8" diameter x 44" H fiberglass softener tank. 18 x 30" white plastic brine tank. Tank holds 240 lbs. of salt. 3/4" copper fittings. 115V, 60 Hz. 5 ft. long 3-conductor cord set. Zerosoft brand (335-EO). Shpg. wt. 78 lbs.

No. 4E016. Standard Model Water Softener. Retail \$360.00. Each **\$228.95**; lots 3.....**\$217.50**

DECORATOR 32,000 GRAIN MODEL

High-fashion cabinet. 10 GPM flow rate. 12 1/2 x 20 x 44" overall height, white polyethylene cabinet. Tank holds 220 lbs. of salt. 3/4" copper fittings. 115V, 60 Hz. 5 ft. long 3-conductor cord set. Zerosoft brand (SC32-EO). Shpg. wt. 90 lbs.

No. 3E031. Decorator Model Water Softener. Retail \$432.00. Each **\$274.75**; lots 3.....**\$260.93**

HI-CAPACITY 100,000 GRAIN COMMERCIAL SOFTENER

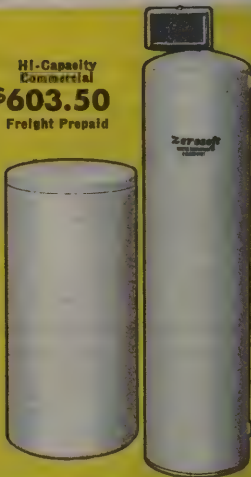
FEATURES

- **1 to 12-Day Adjustable Timer** activates Regeneration Cycle and may be set to function at night. User selects frequency of automatic regeneration. Timers are adjustable for 1, 2, 3, 4, 6 and 12-day cycles.
- **6-Cycle Programmer Valve** controls 1-hour regeneration process of triple action resin wash, brining and double flush-out of excess salt.
- **Motor Driven Drain Valve**
- **Steel Softener Tank**, hot dip galvanized, white baked enamel coating and triple lined. 16" dia. x 54" high. 100 psi maximum operating pressure.

Commercial water softener provides sufficient soft water for small restaurants, car washes, apartments, schools and motels. Two or more units can be piped in parallel for greater capacity. 15 to 20 GPM flow rate. Automatic by-pass allows use of unsoftened water during regeneration. Non-corrosive white polyethylene brine/salt tank has 270 lb. capacity; 18 1/2" dia., 36" high. 1" NPT fittings. 115 V, 60 Hz. 5 ft. long 3-conductor cord set. Zerosoft brand (Gemini 100). Shpg. wt. 420 lbs.

No. 3E045. Commercial Water Softener. Retail \$998.00. Each, Freight Prepaid.....**\$603.50**

Hi-Capacity
Commercial
\$603.50
Freight Prepaid



WATER ANALYSIS SERVICE

Your local water company or municipal water service may provide water hardness data. If this information is not available, use this kit to send sample of prospect's tap water together with completed data form to Zerosoft's laboratory. Zero-

soft will test water and return an analysis of hardness minerals together with a recommendation of the proper softener model. Kit includes plastic bottle, data sheet and envelope. Request from W.W.Grainger Inc., Sales Office/Warehouse.

No. 15625. Water Analysis Kit.....**FREE**

WATER SOFTENERS—PRINCIPLES & SELECTION GUIDE

CAUSES OF WATER HARDNESS & HOW SOFTENERS WORK

Water hardness is caused by dissolved calcium and magnesium compounds found in varying quantities in all municipal and well water supplies. These compounds form deposits similar to limestone in pipes, water heaters, washers and other fixtures, and also combine with soap to produce soap scum. Deposits in pipes and appliances reduce water flow, interfere with operation. Soap scum causes streaks and spotting on glassware, accumulates on laundered fabrics causing discoloration and wear. Hard water wastes soap in direct proportion to the level of hardness compounds present in the water.

Benefits of Soft Water. Removing calcium and magnesium from water improves the taste of drinking water and the flavor of foods cooked in water; makes bath soaps and shampoo more effective; washes clothing cleaner; and increases

service life of water heaters and washers. Soft water also eliminates the cause of bathtub rings, spotting on dishes and glassware, requires less soap and detergents and reduces plumbing repair bills. In addition, softeners remove small amounts of clear iron, up to 8 parts per million.

How Zerosoft Softeners Work. Zerosoft uses a permanent synthetic resin to remove calcium and magnesium ions which cause hardness and exchanges these ions with sodium ions, producing soft water. When the resin becomes saturated with hardness elements it is automatically washed with a brine (strong salt) solution that restores the resin to its original capacity. This process is called a Regeneration Cycle. The brine solution used to restore the resin is made from ordinary salt pellets that are widely available at local supermarkets, hardware stores, etc.

HOW TO SELECT A WATER SOFTENER

Factors to be considered in selecting a water softener:

1. Quantity of softened water required per day.
2. Frequency of regeneration cycles.
3. Amount of salt used per regeneration.
4. Appearance—cabinet or two-tank style.

The amount of water treated and the amount of hardness in a water supply determine the frequency of the water softener's regeneration cycles.

The table at right gives the average number of days between regeneration cycles for the number of people served and the hardness of the water supply.

The frequency of regeneration is based on usage of 50 gallons of water per person per day, used intermittently (normal usage for drinking, cooking, bathing and washing). Each clotheswasher and dishwasher count as one additional person.

The regeneration frequency is also based in grains of hardness per gallon of water. A water analysis will indicate the amount of hardness in the water supply. In most cases water hardness information can be obtained from a local water company or municipal water service. If information is not available, see Water Analysis Service offer on facing page.

HOW TO USE TABLE

Read down left edge of table to section for number of persons and appliances (dishwashers and clotheswashers only—do not count water heaters) to be served. Then read across to proper column for hardness of user's water. Figures at that point indicate number of days between regeneration cycles.

For commercial applications when usage is shown in gallons per day, convert this volume to "Persons" by dividing gallons per day by 50. Then use table as suggested above.

SALT USED PER REGENERATION

Model	At Most Efficient Operating Level (†)	At Maximum Capacity (†)
4E016	5 lbs.	12 lbs.
3E031	6	15
3E045	20	50

Units are pre-set for most efficient and economical salt usage level. Maximum capacity level can be achieved through a simple adjustment to the salt float valve.

Clotheswashers and dishwashers only.

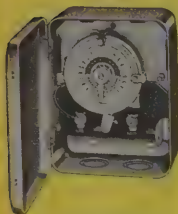
DAYS BETWEEN REGENERATION CYCLES

Persons/ Appliances† Model Nos.	WATER HARDNESS—Grains Per Gallon									
	10	20	30	40	50	60	70	80	90	100
1										
4E016	12	12	6	6	6	4	4	3	3	3
3E031	12	12	12	6	6	6	4	4	4	4
2										
4E016	12	6	4	3	3	2	2	1	1	1
3E031	12	6	6	4	4	3	2	2	2	2
3										
4E016	6	4	3	2	2	1	1	1	1	1
3E031	12	6	4	3	2	2	1	1	1	1
4										
4E016	6	3	2	1	1	1	1	1*	1*	1*
3E031	6	4	3	2	2	1	1	1	1	1
5										
4E016	6	3	2	1	1	1	1*	1*	1*	
3E031	6	4	2	2	1	1	1	1	1*	1*
3E045	12	12	6	6	6	4	4	3	2	1
6										
4E016	4	2	1	1	1	1*	1*	1*		
3E031	6	3	2	1	1	1	1*	1*	1*	1*
3E045	12	12	6	4	4	3	3	3	2	1
7										
4E016	4	2	1	1	1*	1*				
3E031	4	2	1	1	1	1*	1*	1*		
3E045	12	6	4	4	4	3	3	2	1	1
8										
4E016	3	1	1	1*	1*	1*				
3E031	4	2	1	1	1	1*	1*			
3E045	12	6	4	4	3	2	2	2	1	1
9										
4E016	3	1	1	1*	1*					
3E031	4	2	1	1	1*	1*				
3E045	12	6	4	4	3	2	2	1	1	1
10										
4E016	3	1	1	1*						
3E031	4	2	1	1	1*	1*				
3E045	12	6	4	3	3	2	1	1	1	1
12										
3E045	6	4	3	2	2	1	1	1	1	1
16										
3E045	6	4	2	2	1	1	1	1	1*	1*
20										
3E045	6	3	2	1	1	1	1*	1*	1*	1*
24										
3E045	4	2	1	1	1	1*	1*	1*		
28										
3E045	4	2	1	1	1*	1*	1*			
32										
3E045	4	2	1	1	1*	1*				
36										
3E045	3	1	1	1*	1*					
48										
3E045	1	1	1*	1*						

(*) Number of days between regeneration cycle at unit's highest capacity (but at higher level of salt usage).

INDOOR & OUTDOOR 24-HOUR DIAL TIME SWITCHES

Provides up to 12 On-Off Operations Every 24 Hours. 125 & 250VAC



Dayton
\$15.13
 2E021

Heavy-duty time switches built for dependable, automatic control of lighting, pumps, heating and cooling operations. Provides up to 12 On-Off operations each day by adding extra trippers (1 set included, 11 additional sets, No. 2E054, may be added, except on No. 2E024). Minimum setting, 1 hour. Rugged, long life construction. Contacts are tungsten-rated to carry inrush surge 10 times their normal amperage rating—without arcing or sticking. Permanently sealed and lubricated, long-life clock motor. Snap-out mechanism with large, easy-to-read dial that turns in either direction for fast setting. Single pole, single throw or double pole single throw switching action. Patented skipper feature on No. 2E024 allows omission of selected day or days of the week. Rated 30 amps per pole resistive, inductive, tungsten and ballast. 2 HP and 690 VA pilot duty. Drawn steel hammertone gray case with spring hasp for seal or lock. Outdoor units have rubber gasket for complete protection from rain, sleet, snow, etc. UL and CSA listed. Shpg. wt. 2½ lbs.

Enclosure Type	Day Skipper	Switch Action	Volts 60 Hz	H	Dimensions W	D	Stock No.	Retail	Each
Indoor	Yes	SPST	125	6½"	5"	3"	2E024	\$31.85	\$19.43
Indoor	No	SPST	125	6½"	5	3	2E021	23.35	15.13
Indoor	No	DPST	125	6½"	5	3	2E022	25.95	16.88
Indoor	No	DPST	250	6½"	5	3	2E351	27.35	15.69
Outdoor	No	SPST	125	9½"	6½"	3½"	2E258	35.55	21.30
Outdoor	No	DPST	250	9½"	6½"	3½"	2E259	39.05	24.08

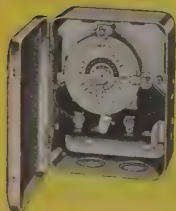
24-HOUR DIAL TIME SWITCH MECHANISMS ONLY

Completely assembled timing and switching modules used in Standard 24-Hour Dial Time Switches listed above. For replacement use or specialized applications. Case not included. Shpg. wt. 2 lbs. Both units are UL recognized.

125VAC, SPST MECHANISM, No. 2E354. For Nos. 2E021 & 2E258 Timers. Retail \$20.70. Each.....\$12.20
 250VAC, DPST MECHANISM, No. 2E353. For Nos. 2E351 & 2E259 Timers. Retail \$24.75. Each.....\$15.30

SHORT-RANGE 24-HOUR TIME SWITCH

Exclusive, Adjustable Tripper Provides 10 to 60 Minute Cycles



Dayton
\$22.50

Handles a wide range of cycle operations, process timing, intermittent pumping, and ventilation. Two single pole, single throw switches; one normally open, one normally closed. Up to 12 On-Off operations of 10 to 60 minutes duration on 24-hour dial. Supplied with 3 exclusive combination On-Off trippers. Each tripper provides a cycle of 10 to 60 minutes. As many as 12 trippers may be placed on the dial (additional trippers, No. 2E055, may be added). Rugged, long life construction. Contacts are tungsten-rated to carry inrush surge 10 times their normal amperage rating—without arcing or sticking. Permanently sealed and lubricated, long life clock motor. Snap-out mechanism with large, easy-to-read dial that turns in either direction for fast setting. Rated 30 amps per pole resistive, inductive, tungsten and ballast. 125VAC, 60 Hz timer motor. Drawn steel hammertone gray case with spring hasp for seal or lock. 6½" H, 5" W, 3" D. UL and CSA listed. Shpg. wt. 2½ lbs.

No. 2E025. Short Range Time Switch. Retail \$44.70. Each\$22.50

PROGRAM TIME CONTROLS WITH FIXED TRIPPERS

Provides up to 96 On-Off Operations Every 24 Hours. 125 & 250VAC



Dayton
\$27.27
 250VAC

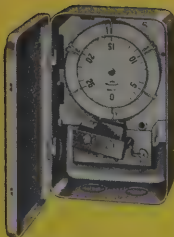
Recommended for control of oil well pumps, poultry feeders, recorded music, ventilating and process equipment. Single pole, double throw switching action. Permanently attached trippers provide 96 On or Off operations in 15 minute increments every 24 hour period. Trippers push in and out for fast, accurate settings. All trippers are furnished with time switch; no need to order additional trippers. Tripper mounts on face of dial perpendicular to face of dial to assure maximum accuracy. Manual On-Off lever. Permanently lubricated synchronous type motor. Snap-out mechanism for easy installation. Rated 20 amps per pole inductive, 1/2 HP, 2500 watts per pole tungsten. Choice of 125 or 250VAC, 60 Hz. Drawn steel hammertone gray case with spring hasp for seal or lock. 7¾" H, 5" W, 3" D. UL and CSA listed. Shpg. wt. 3 lbs.

Volts	Stock No.	Retail	Each
125	2E026	\$50.00	\$27.63
250	2E389	51.05	27.27

1,297 ELECTRIC MOTOR TYPES Available at Grainger's for Immediate Delivery
 You Are Served by Experienced Supply People Who Know Your Motor Needs

5, 10 & 30-MIN. CYCLE TIME SWITCHES

Provides up to 60 On-Off or Off-On Operations Every Cycle



Dayton

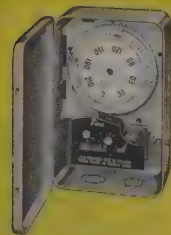
\$19.76

Widely used for controlling chemical and hydroponic equipment, pumps and other motor-driven equipment. Single pole, double throw switching action. 120 tripper slots in equal increments. Complete cycle repeats after elapsed time range. Sixty trippers included, extra trippers available if required, (No. 2E132). Tripper mounts on face of dial perpendicular to face of dial to assure maximum accuracy. Entire mechanism snaps out for easy installation and wiring. 20 amps per pole inductive, 1/2 HP, 2500 watts per pole tungsten. 125VAC, 60 Hz. Steel hammettone gray case with spring hasp for seal or lock. Convenient, easy to wire terminals. Instructions included. 7 3/4" H, 5" W, 3" D. UL and CSA listed. Shpg. wt. 2 3/4 lbs.

Cycle Range	Time Per Tripper	Stock No.	Retail	Each
5 Min.	2 1/2 Sec.	2E356	\$43.00	\$19.76
10 Min.	5 Sec.	2E355	43.00	19.76
30 Min.	15 Sec.	2E130	43.00	19.76

1, 2 & 4-HOUR CYCLE TIME SWITCHES

Provides up to 60 On-Off or Off-On Operations Every Cycle



Dayton

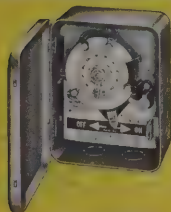
\$19.76

Controls spraying and fogging equipment, coolers, automatic feeders, process equipment, ventilating systems, pumps and motors. Single pole, double throw switching action. Provides up to 120 tripper slots in equal increments. Cycle repeats every 1, 2 or 4 hrs. Sixty trippers included. Extra trippers available if required, (No. 2E132). Tripper mounts on face of dial perpendicular to face of dial for maximum accuracy. Rated 20 amps per pole inductive, 1/2 HP, 2500 watts per pole tungsten. 125VAC, 60 Hz. Drawn steel hammettone gray case with hasp for seal or lock. 7 3/4" H, 5" W, 3" D. UL and CSA listed. Shpg. wt. 3 lbs.

Cycle Range	Time Per Tripper	Stock No.	Retail	Each
1 Hour	30 Sec.	2E357	\$43.00	\$19.76
2 Hour	1 Min.	2E408	43.00	19.76
4 Hour	2 Min.	2E131	43.00	19.76

POULTRY TIME SWITCH WITH DIMMER CIRCUIT

Reduced Lighting Level for Simulated Twilight



Dayton

\$17.98

This switch can increase winter egg production up to 30% by maintaining a 12 to 14 hour workday for hens with consistent, accurate automatic lighting. Can be set for all-night, morning only, evening only, or morning and evening lighting. Separate circuit controls dim lights and provide 20 minutes of simulated twilight in the evening to allow hens to reach the roost safely. Incorporates two sequenced single pole, single throw switches. Capacity: Bright circuit—3000 watts per pole tungsten, 24 amps per pole inductive, at 125V, 60 Hz; Dim circuit—1000 watts per pole tungsten, 8 amps per pole inductive at 125V. Drawn steel hammettone gray case with spring hasp for seal or lock. 6 1/2" H, 5" W, 3" D. UL and CSA listed. 125VAC, 60 Hz timer motor. Dayton brand. Shpg. wt. 2 3/4 lbs.

No. 2E023. Poultry Time Switch. Retail \$26.95. Each**\$17.98**

LAWN SPRINKLER & PUMP CONTROLS

14-Day Custom Automatic On-Off Control of up to 3 Zones



Dayton

\$25.33

125VAC

Designed for automatic control of 2 or 3 zone lawn sprinkling systems. Other applications are: green house misting systems, animal feeding stations, water conditioning equipment, liquid pumps or agitators, multiple defrosting and other applications requiring short range control on a daily basis. 14 day skipper allows sprinkler programming on either an alternate day or weekly basis. Tabs of skipper wheel are coded by day of the week. Controls sprinkling from 1 to 3 zones separately any time of the day or night. Time range is adjustable for each zone from 5 minutes to 1 hour. In addition to the three adjustable zone circuits, there is a fourth circuit which may be wired to energize a master valve, or pump, for the entire sprinkling cycle. Manual switch energizes complete cycle when required, after which mechanism will automatically resume programmed schedule. The area timing dials are color-coordinated with the corresponding pigtail leads to simplify setting and wiring. Heavy-duty, permanently-lubricated, 24VAC and 125VAC, 60 Hz synchronous motors. Rated 5 amps, inductive per circuit, 115 VA pilot duty at 24 or 125 volts, 1/8 HP. Steel hammettone gray case with spring hasp for seal or lock. 7 3/4" x 5" x 3" No. 2E220 is UL & CSA listed. 3 3/4 lbs.

Volts	Stock No.	Retail	Each
125VAC	2E220	\$39.70	\$25.33
24VAC	2E221	40.75	25.93

AUTOMATIC-RESETTING INTERVAL TIMERS

Requires External Momentary Contact Switch to Initiate Each Cycle
1, 5, & 60-Minute Ranges. Continuous-Duty Design. 600VAC, Heavy-Duty Contacts



Dayton

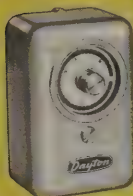
\$51.89
All Models

Serves many industrial and commercial applications such as automation control, machine tools, process control, air conditioning and pump protection, vending machines, R & D, etc. Two sets each of normally open and normally closed contacts transfer in unison when timing cycle is initiated and automatically return to original position at end of set time. Resets to zero at end of cycle. Requires external momentary contact switch to initiate each new cycle. $\pm 1\%$ full scale repeatability accuracy. Time progress indicator returns to 0 at end of cycle. Heavy-duty pilot rating, 720VA per pole, 600 VAC contacts. Timing motor can run continuously. 120V, 60 Hz, 3W timer motor. Solenoid is 125V, 60 Hz, 84VA inrush, 9.6VA holding. $4\frac{3}{32}$ H x $4\frac{3}{32}$ W x $4\frac{1}{16}$ " D. UL listed. Shpg. wt. $2\frac{1}{2}$ lbs.

Timing Range	Adjustment Range	Dial Graduations	Stock No.	Retail	Each
1 Minute	2-60 Seconds	1 Second	2E333	\$83.45	\$51.89
5 Minutes	10-300 Seconds	5 Seconds	2E334	83.45	51.89
60 Minutes	2-60 Minutes	1 Minute	2E335	83.45	51.89

PERCENTAGE CYCLE-TYPE TIMER

For Controlling Liquid Pumps, Agitators, Fans, Etc.



Dayton

\$25.83

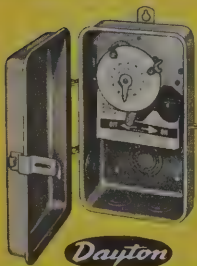
120VAC

Widely used for controlling liquid pumps, ventilating fans, greenhouse misters, milk agitators, poultry waterers, etc. Single pole, single throw switching action. Available in 0-10 and 0-30 minute timing ranges. Complete adjustability of On and Off time is an exclusive Dayton feature. Repeats cycle continuously as long as power is supplied to motor. Cycle is adjustable on a percentage basis for 0 to 90% of On time and 0 to 100% of Off time. Clearly visible dial, has easy-to-set pointer. Up to 1/2 HP motor load, or 15 amps, non-inductive load (heating, incandescent lighting). Motor is heavy-duty, lifetime lubricated, synchronous type, 60 Hz. Color-coded leads for easy wire-nut installation. Aluminum case for surface or box mounting, $5\frac{1}{8}$ H x $3\frac{3}{8}$ W x $2\frac{1}{16}$ " D. Dayton brand. Shpg. wt. $1\frac{1}{4}$ lbs.

Timing Range	Volts 60 Hz	Stock No.	Retail	Each
0-10 min.	120	2E209	\$39.57	\$25.83
0-10 min.	240	2E256	41.50	27.03
0-30 min.	120	2E210	39.57	25.83

SWIMMING POOL HEATER & PUMP TIME SWITCH

Stages Filter Pump Shut-Down After Heater Shut-Down. 250VAC. DPST



Dayton

\$26.48

Eliminates many of the problems caused by controlling pool filter and gas heater from a single-stage time switch. Double pole, single throw motor switching, single pole, single throw heater switching. 24-hour dial timer first shuts off heater gas valve and 25 min. later shuts off filter pump motor. This permits a steady stream of unheated water to pass through the heater while it cools down, thus eliminating knocking, pounding, and overheating. Heater life is also prolonged through reduction of lime scale deposits in tank.

Both circuits switch on simultaneously. Timer provides a positive shut-off to protect against heater burn out caused by malfunction of pressure switches, thermostats, limit controls or check valves. Motor switch can also be used to control chlorinators, pool sweepers, etc. Gold plated heater control contacts and heavy-duty timer motor assures long life. Timer case is raintight for outdoor use. Extra trippers available for up to 12 operations per day. 250VAC, 30A per pole inductive, 2 HP filter pump motor circuit. 28VDC max. heater valve circuit. 250VAC, 60 Hz timer motor. UL listed. $9\frac{3}{8}$ H x $6\frac{1}{2}$ W x $3\frac{1}{16}$ " D. Shpg. wt. 3 lbs.

No. 2E352. Pump/Heater Timer. Retail \$52.95. Each **\$26.48**

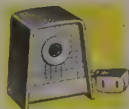
AIR CONDITIONER BLOWER MOTORS



Permanent split capacitor motors for air conditioner blowers and condenser fans are stocked at Grainger's. $1\frac{1}{8}$ to 1 HP models, single and 2-speed, 115 and 230V, NEMA 48 or 56Z frame, thermal

protection, single or double shafts. Adapter brackets for replacements, also stocked. See Index under Motors, Air Cond.

PHOTOELECTRIC SWITCH



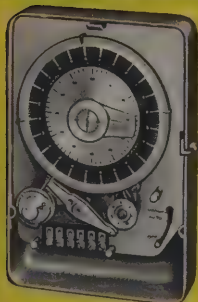
\$4.97

Automatic photoelectric switch operates up to 300W light load. Turns On at dusk, Off at dawn. For indoor uses in homes, stores, etc. Plugs into 115V, 60 Hz outlet. Tamperproof photoelectric cell. Unbreakable polypropylene case, beige finish. 3 H x $2\frac{1}{2}$ W x $2"$ D. UL listed. Dayton brand. Shpg. wt. 1 lb.

No. 2E176. Retail \$7.10. Each **\$4.97**

ALARM-PROGRAMMING CLOCK CONTROL

**Extremely Accurate, Easy to Set. Skip-A-Day Dial
Adjustable Pre-Warning and Main Signal**



Dayton

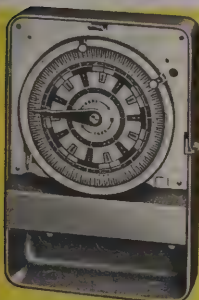
\$84.29

Widely used by schools, institutions, offices, industry, etc. to control horns, bells, buzzers, volunteer fire alarms, etc. Ideal for programming audible signals. Single pole, single throw switching action. 24-hour day divided into 5 minute increments. Skip-A-Day feature permits suspension of operation for any 12 or 24-hour period starting at 6 AM or 6 PM of any day or days. Main and pre-warning signal adjustable 4 to 60 seconds. Prewarning signal adjustable 1 to 3 minutes preceding main signal. Large knurled dial knob for easy in-front setting. Indexing done with cams and precision gears which assures positive, accurate control over entire time range. Switch rated 5 amps, inductive, 125VAC, 60 Hz. Motor is heavy-duty synchronous type. Sealed-in mechanism lubricated for life. Sturdy drawn steel, wall-mounted indoor case with convenient knockouts. Hinged cover with hasp for seal or padlock. Two-tone gray gloss finish. 10% H x 7% W x 3% D. UL & CSA listed. Furnished with 9 regular trippers for Skip-A-Day, 8 regular trippers for prewarning and 24 half trippers for main signals. Single lever for Manual, Automatic or Off control. Shpg. wt. 7½ lbs.

No. 2E212. Program Control. Retail \$138.50. Each\$84.29

7-DAY DIAL, 4-POLE MULTI-PURPOSE CONTROL

**Weekly Schedule with Individual Daily Settings
and Omitting Any Day or Portion of a Day**



Dayton

\$30.84

Ideal control for heating, ventilating, lighting, air conditioning, etc., in schools, public buildings, stores, factories, offices, parking lots, etc. Four single pole, single throw switches; two normally open, two normally closed. Provides automatic timing on weekly schedule and controls four separate circuits. Rated 30 amps tungsten, 20 amps inductive per pole. Any electrical system can be activated automatically at different hours each day, and any day or days may be omitted. Settings can be made in advance for an entire week, or quickly changed. 14 standard On-Off trippers included. On-Off trippers may be added at any time for 3 hours minimum On per setting, and 3 hours minimum Off per setting. Manual On-Off lever. 7" dial subdivided in 30-minute increments. Snap-out mechanism. All switching contacts isolated from motor; screw terminals. Heavy-duty, industrial-type synchronous motor, sealed-in mechanism, lubricated for life. 125VAC, 60 Hz. UL & CSA listed. Gray crinkle finish case, 10% H x 7% W x 3% D. Shpg. wt. 7 lbs.

No. 2E214. 7-Day Timer. Retail \$51.62. Each\$30.84

INDOOR-OUTDOOR 24-HOUR CONTROL

Operates in 15-Minute Increments for Flexible Schedule



Dayton

\$46.69

Controls lighting systems, commercial heating, poultry feeders, music systems and similar intermittently-operated equipment. Single pole, double throw switching action. 96 self-retaining trippers in 24-hour dial for 1 to 48 operations per day in multiples of 15 minute On and Off periods. Trippers programmed with touch of finger. Supplied with patented Skip-A-Day dial that permits omission of any day or days in week. Isolated contacts for independent load circuit operation. Sealed, lifetime-lubricated, heavy-duty synchronous motor. 125VAC, 60 Hz. 10 Amp inductive rating, 125VA pilot duty. Weather-resistant, breather-type, gray enameled case for indoor or outdoor use. Hasp for seal or padlock to prevent tampering. 10 H x 5½ W x 4" D. UL & CSA listed. Shpg. wt. 5½ lbs.

No. 2E213. 24-Hour Control. Retail \$60.35. Each\$46.69

EXTRA TRIPPERS FOR TIME SWITCHES

For Time Switch	Stock No.	Quantity	Retail	Each Set
2021, 2E053, 2E022				
2023, 2E258, 2E259				
2351, 2E352, 2E353				
2E354	2E054	1 pr. On-Off	\$0.90	\$0.58
2E025	2E055(*)	1 Adjustable	2.80	1.88
2026, 2E130, 2E131				
2355, 2E356, 2E357	2E132(†)	12 Trippers	1.00	0.65
2E389, 2E408				

On-Off cam-type tripper adj. 5 to 60 min. (†) Shipped from Chicago Service Dept. Order from nearest Grainger address for best shipping service. Shpg. wt. 1 oz. each.

Sell More Time Switches —Tell What They Do

1. Apartment Hallway, Entrance Lighting
2. Window and Night Lighting of Stores
3. Electric Advertising and Warning Signs
4. Factory, Yard and Fence Lighting
5. Poultry House Lighting in Winter
6. Attic Fans and Ventilating Blowers
7. Heater, Air-Conditioning, Pump Controls
8. Automation and Process Control
9. Signal Devices, Lawn Sprinklers



AUTOMATIC LAMP AND APPLIANCE TIMERS

LIGHTS • RADIOS • STEREOS • FANS • SUN LAMPS • DEFROSTING

PORTABLE 24-HOUR REPEATING TIMER



\$6.97 Attractive, versatile timer has 15 amp capacity for controlling appliances, lighting, TV and Hi Fi, heaters, etc. Repeats timed cycle every 24 hrs. Minimum On time, ¼ hr. Maximum Off time, 23¾ hrs. Easy-to-set time dial has large AM and PM division readable even in dim light. Color coded trippers. Equipped with manual On-Off over-ride switch and push-pull dial feature for extended On or Off periods. All controls are on front of timer case. Durable one-piece, hi-impact plastic case is angled for easy viewing. Finished in champagne white with flat black face plate. Black dial face with white numerals. 125V, 60 Hz, 1875W, 12A tungsten, 1/3 HP. UL and CSA listed. 5 ft. line cord. 3¾ H x 3½ W x 4¼" D. Shpg. wt. 1 lb.

No. 2E388. 24-Hour Timer. Retail \$10.45. Each.....\$6.97

24-HOUR CORDLESS APPLIANCE TIMER



\$5.32 Economical repeating timer for On-Off control of lighting and small appliances such as coffee pots and battery chargers. Plugs directly into any wall outlet. Minimum On time, 2½ hrs., maximum On time, 21½ hrs. Repeats every 24 hrs. Compact and easy to set. Has manual On-Off override switch. 1500W, 12 amps, 120V, 60 Hz. UL listed. Pecan finish with white dial numbers 3¾ H x 2¾ W x 2" D. Shpg. wt. 8 oz.

No. 2E274. Dayton Small Appliance Timer. Retail \$7.98. Each.....\$5.32

24-HOUR IN-THE-WALL TIMER



\$12.27 Versatile repeating timer for automatic control of lights, air conditioners (115V) and appliances in homes, stores, offices, etc. Easily installed in electrical junction box to replace a receptacle or a light switch. If mounted as a wall receptacle, timer provides two 3-pin outlets, one timed to turn light and appliances On and Off automatically and the other a continuous service outlet. Timer can also be used as a wall switch to automatically control ceiling lights, outside lights, etc. Timed and continuous outlets will function as in receptacle box installation. Timer has manual On-Off override switch, large, easy-to-set and read dial, and attractive beige and black finish. For 120V, 60 Hz. 15A, 1875W, 12A tungsten, 1 HP. UL listed. 5½ x 3¾ x 1¼" D. Shpg. wt. 1 lb.

No. 2E257. 24 Hour In-The-Wall Timer. Retail \$18.40. Each.....\$12.27

60-MINUTE BELL-TYPE TIMER



\$4.15 Attractive, compact, accurate. Highly audible ring at end of selected time interval from one to 60 minutes. Used for cooking, photography, school tests, lab experiments, etc. High quality spring-wound mechanism. Hi-impact, autumn gold plastic case with large white numerals on black band. Use on table top or hang on wall using built-in hook eye. 3½ dia. x 1¼" H. Shpg. wt. 5 oz.

No. 2E391. Deluxe Bell Timer. Retail \$6.20. Each.....\$4.15

WALL-MOUNT TIME SWITCHES



\$6.72 Versatile mechanical time switches control fans, heat lamps, garage lights, appliances, etc. Mount in standard 2x4" conduit box. Brushed aluminum finish. 1 HP at 125VAC, 5A at 125VAC tungsten, 20A at 125VAC, 10A at 250VAC. Units with hold feature allow constant on in addition to timing action. UL listed. Dayton brand.

Range	Hold	Stock No.	Retail	Each	Wt.
5 Minutes	No	6X545	\$10.05	6.72	8 oz.
15 Minutes	No	2E269	10.05	6.72	8 oz.
30 Minutes	No	2E175	10.05	6.72	8 oz.
60 Minutes	No	6X546	10.05	6.72	8 oz.
60 Minutes	Yes	2E270	10.05	6.72	8 oz.
12 Hours	No	2E052	10.05	6.72	8 oz.
12 Hours	Yes	6X547	10.05	6.72	8 oz.

2-SPEED FAN TIMER-SWITCH



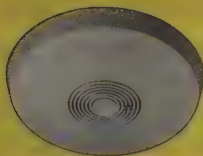
\$8.54 Controls operation of 2-speed exhaust fans, blowers, ventilators, etc. 0 to 12 hour timer and DPDT center-off toggle switch mounted on 4½" sq. polished metal wall plate. Fits 4 x 4 x 2½" D handy box. Switch rated 15 amp, 125V, 10 amp, 250VAC. Dayton brand. Shpg. wt. 13 oz.

No. 2E089. Retail \$13.67. Each **\$8.78**; lots 6, **\$8.54**

Sump & Drainage Pumps Stocked

Grainger's can supply a wide variety of sump and other pumps for stock or emergency needs—motors too. Call us when you must have immediate supply service—that's our business.

ION CHAMBER SMOKE and FIRE DETECTORS



Dayton

\$20.64

No. 2E306

- 120V, 60 Hz, and Battery Operated Models
- Sense Minute Particles of Combustion, Even Before Smoke Begins to Appear
- Dual Ionization Chamber Compensates for Temperature, Humidity and Air Pressure Changes
- Complies with All Fire Safety Codes under UL Standard No. 217
- Loud Horn-Type Alarm—85dB at 10 Feet for Maximum Audibility

Dayton single-station fire and smoke detectors sense fire in its earliest (incipient) stage for maximum user protection. Units feature dependable, dual ionization chamber design and horn type alarm that registers 85dB 10 feet from detector. Sensitivity is pre-set; no adjustment required. Convenient push-to-test button on exterior of unit. Can be mounted on wall or ceiling. Both units meet all fire safety codes under UL Standard No. 217, in addition to ICBO and BOCA approval agencies. White plastic case, 6½" dia. ¾" D.

120V, 60 Hz Model: Meets HUD, FHA and VA standards. Connects to any 120V, 60 Hz power source which cannot be turned off by a switch. Indicator light glows continuously to assure

user that power is applied to unit. Uses only 1.2 watts. Mounts on standard electrical junction boxes.

Battery Operated Model: No electrical connection required. Install anywhere in minutes. Uses long service life battery (supplied) which will last for at least 1 year and is available locally for replacement. Voltage regulator compensates for declining battery power. Also has beeper-type signal which sounds for up to one month when battery replacement is required.

Power	Stock No.	Retail	Each	Shpg. Wt.
120VAC	2E396	\$29.88	\$20.64	1
Battery	2E395	39.88	27.92	1½

HONEYWELL TC49 FIRE and SMOKE DETECTOR

Dual Ionization Chamber Type. Easy Installation on Wall or Ceiling

Can Sense Incipient Fire—Before It Reaches The More Hazardous Stages. Loud Alarm

\$24.66

No. 2E409

For conventional and mobile single family homes, apartments, townhouses. Can detect minute particles of combustion at the earliest (incipient) stages of fire thus warning building occupants before smoke, flame and heat create serious hazards. Utilizes dual ionization chamber detection principle which compensates for temperature, pressure and humidity changes resulting in high sensitivity and minimum false alarms. Interconnection feature allows one detector to simultaneously trigger alarm horns of up to three detectors. Meets all current fire safety codes including FHA & VA. Loud alarm horn; 85 dB at 10 ft. Solid state circuitry with operation indicator lamp. Removing cover disables alarm. Can be tested with match or cigarette. Adjustable sensitivity. Easy installation; universal mounting plate fits all standard electrical boxes or use optional No. 6X438 line cord accessory. Mounts on wall or ceiling. Satin white plastic case, 6¼" dia. x 2¼" D. +40° to +150°F ambient operating temperature range. For 120V, 60 Hz. UL listed. Shpg. wt. 2½ lbs.

No. 2E409. Smoke Detector. Retail \$39.95. Each.....**\$24.66**



ONLY 6¼" DIAMETER

LINE CORD ACCESSORY FOR HONEYWELL TC49 SMOKE DETECTOR ABOVE

Shows No. 2E409 smoke detector to be plugged into standard 2 or 3-wire receptacle. Avoids conduit wiring. Includes 8 ft. cord set with proper connectors, plug retainer clip to avoid accidental unplugging and 2 plastic wall anchors. Shpg. wt. 5 oz.

No. 6X438. Line Cord Accessory. Retail \$3.60. Each.....**\$1.95**

SWITCH-TYPE PILOTSTAT, C434A

\$9.38

Interrupts the electrical circuit to prevent opening of the automatic main gas control valve should the pilot flame become extinguished. Manual reset. Safe lighting mechanism breaks automatic valve contacts when reset button is depressed during pilot lighting operation. May be used to interrupt 120-240 or 24 V. control circuits. Shpg. wt. 8 oz.

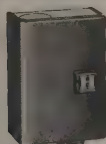
No. 2E112. Retail \$20.94. Was \$10.47. Each, while stocks last**\$9.38**

SOLENOID GAS VALVE, V8202A

\$19.43

Replaces the popular Honeywell V80 series. Oil filled solenoid for silent operation. Single function electric gas valve for use in a gas manifold system. ¾"x¾". 24V. 0.40 amp heat anticipator setting. 485,000 BTU max. Shpg. wt. 2 lbs.

No. 2E240. Retail \$43.34. Was \$21.67. Each, while stocks last**\$19.43**



HONEYWELL TRADELINE CONTROLS

UNIVERSAL 24-VOLT THERMOSTAT, T87F



\$9.49 Provides 24-volt control for residential heating or cooling. Also for heating and cooling (SPDT) using the Q539A (No. 2E151) sub-base. Wide range heat anticipator is adjustable from 0.1 to 1.2 amps. Dust-free mercury switch. Rotating temperature selector pointer with permanently-centered scale for symmetrical appearance. Room temperature thermometer scale. Wide temperature selection, 40° to 90°F, for minimum heating or cooling requirements. Embossed gold numerals and name plate for richer styling. Replaces all two wire 24 V. thermostats. Shpg. wt. 3 oz.

No. 2E096. (T87F). Universal Thermostat. Retail \$18.98. Each.....\$9.49

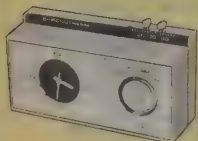
SUB-BASE, Q539A. For use with T87F (No. 2E096) thermostat. Provides system switching (Cool-Off-Heat) for heating and cooling and fan switching (Auto-On). Includes fixed anticipator for cooling operation and convenient finger-tip control levers. Shpg. wt. 2 oz.

No. 2E151. Retail \$14.63. Each.....\$7.32

OPTIONAL WALL PLATE, 129044A. For use with T87F (No. 2E096) or combination of T87F (No. 2E096) and Q539A (No. 2E151) sub-base. To cover a marred wall when replacing an old thermostat, or for junction box mounting. Shpg. wt. 3 oz.

No. 2E235. Retail \$2.81. Each.....\$1.46

AUTOMATIC CHRONOTHERM, T882A



\$39.45 Automatically switches temperature setting for 4½ hours or more for comfortable sleeping and reduced fuel demand. 24 V. mercury switch for heating or cooling, or heating-cooling applications (SPDT) using Q611A (No. 2E236) sub-base. Adjustable anticipator 0.1 to 1.2 amps. Range 50° to 100°F. Separate 18 V. clock transformer included. Can replace all 24 V., two-wire thermostats. 3½ H x 6¼ W x 2½" D. Shpg. wt. 2¼ lbs.

No. 1E766. (T882A). Chronotherm. Retail \$78.90. Each.....\$39.45

SUB-BASE, Q611A. Combines with the T882A (No. 1E766) or T8084A (No. 2E429) Chronotherm to control a heating-cooling system and fan. 5¼" deep.

No. 2E236. Sub-Base. Retail \$13.80. Each.....\$6.90

SEMI-AUTOMATIC CHRONOTHERM, T8084A

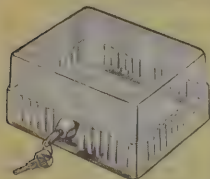


\$29.85 Utilizes a manually-set mechanical timer to provide fuel-saving temperature setback from 2 to 1½ hours. Automatically returns to high setting at end of selected time interval. No transformer or extra wiring necessary. SPDT mercury switch for 24 to 30 volt heating or cooling systems; use Q611A (No. 2E236) sub-base listed above for cooling control. 54° to 86°F set point range; separate high and low temperature levers with locking screws. 52° to 98°F thermometer. Heating anticipator adjustable from 0.1 to 1.2A. Fixed cooling anticipation. Mounting hardware furnished. Attractive gold-finish case with dark brown trim. 3½ H x 6¼ W x 2½" D. Shpg. wt. 1 lb.

No. 2E429. (T8084A) Semi-Automatic Chronotherm. Ret. \$59.70. Ea. \$29.85

UNIVERSAL THERMOSTAT GUARD, 133722D

Installs over Existing Thermostat—No Thermostat Removal Required

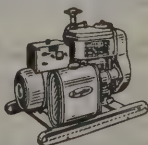


\$6.90 Fits most new and older thermostats of any make. Widely used in stores, offices, gymnasiums, clinics, hospitals, restaurants, hotels, etc., to prevent tampering, damage and unauthorized adjustment. Rugged butyrate plastic construction, practically unbreakable, completely transparent. Mounts vertically or horizontally; can be installed without removing thermostat. Mounting hardware furnished. Equipped with tamper-resistant tumbler-type lock; 2 keys supplied. Maximum thermostat dimensions: 6¼ x 4¼ x 2¼" D or 4¼" diameter x 2¼" D. Overall, 5½ H x 6½ W x 3¾" D. Wt. 1½ lbs.

No. 2E430. (133722D.) Thermostat Guard. Retail \$13.80. Each.....\$6.90

1000 to 30,000 WATT PORTABLE & STATIONARY POWER PLANTS STOCKED

Grainger's has large stocks of high performance, portable alternator and generator power plants with 1000 to 7000 watts, 115 & 230V AC output for emergency and stand-by service. Stationary-type generators with 5000 to 30,000 watts output are



also stocked. Units start automatically when public power fails, shut off when normal power resumes. The Dayton line is quality-built and available with a variety of features. Large stocks maintained. See Index under Power Plants.



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

LOW VOLTAGE
THERMOSTATS

24-VOLT MAGNETIC SWITCH THERMOSTAT

Not Affected by Tilt or Vibration. Exclusive Detent Dial



No. 2E222 for Heating only.
For Heating/Cooling, add No. 2E223 Sub-Base listed below.

\$4.85 Advanced design, low-voltage thermostat for control of gas, oil, or electric heating or heating/cooling systems. Consists of modular heating-only sub-base and thermal control unit with SPDT heating/cooling circuitry. Converts to heating/cooling simply by adding No. 2E223 Heating/Cooling Sub-Base below. 2-wire control on heating operation. 50° to 90°F control range with differentials of 1½° for heating and 2° for cooling. 60° to 90°F control-point thermometer. Detent-type set-point control permits foolproof temperature settings in 1° increments—even in dark. Thermal control element snaps in and out for fast, easy field installation and maintenance. Positive-acting, sealed, magnetic reed switch is vibration-proof and does not require leveling. High capacity circuitry and extra-wide, adjustable, heat anticipation range of 0.16 to 1.5 amp. accommodate practically all 24-volt system final controls. 2-amp. fixed cooling anticipation. Smart styling and rich silver, gold and mahogany trim blend with any decor. Only 2¾ H x 2½ W x 1¼" D. Direct wall mounting; for outlet box mounting use No. 2E224 Wall Plate below. Shpg. wt. 3 oz.

No. 2E222. Was \$6.91. Each, while stocks last\$4.85

HEATING/COOLING SUB-BASE. For converting above No. 2E222 thermostat to heating/cooling operation. Has top mounted Cool-Off-Heat system switch and Auto-On fan switch. Easy installation. Wiring terminals provided. Mahogany finish. Shpg. wt. 3 oz.

No. 2E223. Was \$5.62. Ea., while stocks last \$3.52

WALL PLATE. For mounting No. 2E222 thermostat or No. 2E223 Sub-Base on outlet box. Also used to cover marred wall where a larger thermostat is being replaced. 4½ x 4½ x ¾" D. Includes two-color insert to cover mounting holes in wall plate. Shpg. wt. 3 oz.

No. 2E224. Was 94c. Each, while stocks last 51c

24-VOLT HEATING/COOLING THERMOSTAT

Mercury Switch Type. No Sub-Base or Mtg. Bracket Required



\$11.41 Full-feature, economical thermostat for low-voltage control of all types of heating/cooling systems. Compact, single-unit construction and slide-in wiring terminals speed installation time. Sealed mercury switch for reliability. Convenient Cool-Off-Heat and fan Auto-On switches. 50° to 90°F control range differential. 50°-90° thermometer. Adjustable heat anticipator, 0.25 to 1.2 amps. Fixed cooling anticipation. 1°F differential on heating, 1½°F on cooling. High-styled beige case with bronze & gold face plate. 3¾ W x 2¾ H x 1¼" D. Shpg. wt. 5 oz.

No. 2E273. Heating/Cooling Thermostat. Retail \$22.82. Each.....\$11.41

SNAP-ACTION HEATING THERMOSTAT

Controls 24-Volt Heating Systems. Adjustable Anticipator



\$6.15 Economical low-voltage thermostat for 24V control of gas, oil or electric heating systems. Control circuit closes on temperature drop. Convenient temperature selector at side of thermostat has 50°-90°F range. ¾°F fixed differential. 50°-90° thermometer. Adjustable heat anticipator, 0.18 to 1.2 amp. Convenient slide-in terminals for easy wiring. Beige case with bronze & gold face plate. 3¾ W x 2¾ H x 1¼" D. Shpg. wt. 5 oz.

No. 2E156. Heating Thermostat. Retail \$12.30. Each.....\$6.15

SNAP-ACTION COOLING THERMOSTAT

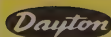
Controls 24-Volt Cooling Systems. Auto-On Fan Switch



\$7.51 Economical low-voltage thermostat for 24V control of cooling systems. Control circuit closes on temperature rise. Has Auto-On fan switch. Convenient temperature selector at side of thermostat has 50° to 90°F range. 1½°F differential. 50°-90°F thermometer. Fixed cooling anticipation. Convenient slide-in terminals for easy wiring. Beige case with bronze & gold face plate. 3¾ W x 2¾ H x 1¼" D. Shpg. wt. 8 oz.

No. 2E278. Cooling Thermostat. Retail \$15.02. Each.....\$7.51

REQUEST BULLETIN 808 ON DAYTON AUTOMATIC CONTROLS
AVAILABLE FROM YOUR GRAINGER SALESMAN OR OFFICE



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

LOW VOLTAGE THERMOSTATS

AUTOMATIC TIMED COMFORT THERMOSTATS

Automatically Raise or Lower Room Temperature. Reduce Fuel Costs
Easy Installation—No Additional Wiring or Transformers Required
Heating Only and Heating/Cooling Models. Sealed Mercury Switches

\$36.99

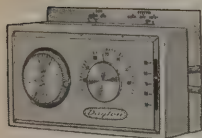
No. 2E450

These thermostats have two separate temperature set-point adjustments which are switched automatically according to time and temperature set by user. The following normally used operating modes can be selected.

Heating operation, Nos. 2E450 and 2E451—Thermostat lowers temperature at night, raises temperature in morning.

Cooling Operation, No. 2E451 only—Thermostat lowers temperature at night and raises temperature in morning, or raises temperature at night and lowers temperature in morning.

Install in any 24-30V heating or heating/cooling system without need for additional wiring. Temperature switching is accomplished by a solid state, 24 hour recycling, quartz crystal timer operated by a nickel cadmium battery. AM and PM dial increments. 3 minutes per year accuracy. Battery is kept at full charge by thermostat power transformer and will operate the clock for 72 hours in event of a power failure thus avoiding clock resetting. 6 to 10 year battery life. Sealed mercury type switches. Control range, 50 to 90°F with convenient levers. Set-back range, 1 to 30°F for 4 hours minimum. Heating anticipator fixed for 0.15 to 1.0A, cooling anticipator fixed for 0 to 1.5A. Heating/cooling model has detent type Cool-Off-Heat and Fan Auto-On switches. Easy installation. Beige plastic case with clear plastic face. 3 3/4" H x 6 1/2" W x 2 1/2" D. Shpg. wt. 1 lb.



HEATING/COOLING
No. 2E451



HEATING ONLY
No. 2E450

Type	Switch Action	Stock No.	Retail	Each
Heating/Cooling	SPDT	2E451	\$88.44	\$44.22
Heating Only	SPST	2E450	73.98	36.99

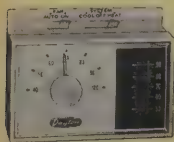
24-VOLT MERCURY SWITCH THERMOSTATS

With or without Heating/Cooling Sub-Base. Large, Easy-to-Read Scales
SPDT Switch Action. Electric Furnace Model Available

\$8.82

Less
Sub-Base

Quality thermostats, with sealed mercury switches, for new or replacement use. Available with or without heating/cooling sub-base. Horizontal and vertical styles. Electric furnace model, No. 2E476, is same as No. 2E468 except it energizes fan relay on both heating & cooling cycles. Models without sub-base also have SPDT mercury switch so that sub-base can be added later if desired. Sub-base also available separately; has Heat-Off-Cool and Fan Auto-On, lever type switches. Easy installation with screw-type terminals. Attractive, instrument-style, easy-to-read dial. 32 to 108°F bimetal thermometer. Convenient slide lever set-point adjustment with 50-90°F range. Narrow differentials of 1/2°F on heating and 1 1/2°F on cooling. Wide-range, easily adjustable heat anticipation of 0.15 to 1.0A handles all normal 24V heating installations. Beige plastic case with gold and black face plate.



2E468 & 2E476



2E215

Type/Style	H	Dimensions W D	Stock No.	Retail	Each	Shpg. Wt.
Horizontal with Sub-Base	3 3/4	4 3/4 1 3/4	2E468	\$30.36	\$15.18	1 lb.
Horizontal less Sub-Base	2 3/4	4 3/4 1 3/4	2E137	17.64	8.82	5 oz.
Vertical less Sub-Base	4 1/2	2 3/4 1 3/4	2E215	17.64	8.82	8 oz.
Electric Furnace Model	3 3/4	4 3/4 1 3/4	2E476	30.36	15.18	7 oz.
Sub-Base Only	3 3/4	4 3/4 3/4	2E467	17.12	8.56	8 oz.

WALL PLATE. For above thermostat or combination of thermostat and sub-base to cover wall blemish on replacement jobs. Shpg. wt. 4 oz.

No. 2E150. Wall plate for mercury switch thermostats. Retail \$2.44. Each.....\$1.22

MILLIVOLTAGE THERMOSTAT

Same as No. 2E215 vertical thermostat above, except has a 1 1/2°F fixed differential and is non-anticipatated. For use with millivoltage valve

and generator in heating installations where 24V or line voltage wiring is impractical. Millivoltage gas valve and pilot generator are also listed under Dayton Automatic Controls.

No. 2E233. Retail \$14.68. Each.....\$7.34

24V, 3-WIRE ZONE THERMOSTAT

For residential zone installations. Use with Dayton or similar zone valves. SPDT mercury

switch, heat anticipated. Range 50° to 90°F, diff. 1/2°F. 24V, 1.5 amp, AC max. Horizontal case, 4 1/2" W x 2 3/4" H x 1 1/2" D. Shpg. wt. 5 oz.

No. 2E165. Retail \$15.88. Each.....\$7.94

DESCRIPTIVE BULLETINS with specifications are available on Most DAYTON PRODUCTS



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

LOW VOLTAGE
THERMOSTATS

24-VOLT MULTI-PURPOSE THERMOSTAT



35 to 80°F Range. Lockable Set Point Adjustment. SPST Mercury Switch

\$7.89 Minimum setting of 35°F makes this thermostat suitable for heating systems requiring control just above freezing. Also has adjustable locking device that can lock temperature set point lever at a specific setting or provide a minimum or maximum setting stop. Sealed SPST mercury switch type, for heating only. Attractive, instrument-style, easy-to-read dial. 32 to 108°F bimetal thermometer. Convenient slide lever set-point adjustment with 35 to 80°F range. Wide-range, easily adjustable heat anticipation of 0.15 to 1.0A handles all normal 24V heating installations. Beige case with gold and black face plate. Shpg. wt. 12 oz.

No. 2E466. Multi-Purpose Thermostat. Retail \$15.77. Each.....\$7.89

AUTOMATIC CHANGE-OVER THERMOSTAT

Single Stage Heating, Single Stage Cooling. Mercury Switch Type



\$31.91 Provides automatic change-over between heating and air conditioning systems. For 24V single stage systems only. Separate spiral bimetal-actuated mercury switches for heating and cooling. Positive-detent switches for Heat-Off-Cool-Auto and fan Auto-On. Heat anticipator adjustable from 0.15 to 1A, fixed 0 to 1.5A cooling anticipation. Separate slide-lever adjustments for 50°-85°F heating range, 55° to 90°F cooling range. 3°F interlock between heating and cooling. 1/2° differential on heating, 1 1/2° on cooling. Mercury switches rated 1A @ 24VAC on heating, 1.5A @ 24VAC on cooling. No sub-base required, easily installed, built-in bubble level. Gold tone dial, beige and gray case. 3 1/2" H x 4 3/4" W x 2" D. Shpg. wt. 12 oz.

No. 2E397. Thermostat. Retail \$63.82. Each.....\$31.91

24V HEAT PUMP STAGING THERMOSTAT

Has All Necessary Features for Control of Most Heat Pumps



\$38.52 Provides 2 stages of heating, one stage of cooling. Separate, mercury switches for all stages. Positive-detent switches for Heat-Off-Cool-Auto and fan Auto-On. Heat anticipator adjustable from 0.15 to 1A; fixed cooling anticipation. Separate slide-lever adjustments for 50°-85°F heating range, 50° to 90°F cooling range. Pilot lamp illuminates when second stage is "on". DPDT emergency switch for compressor disconnect. No sub-base required. Built-in bubble level. Gold-tone dial, beige and gray case. 3 H x 4 3/4 W x 2" D. Shpg. wt. 12 oz.

No. 2E344. Staging Thermostat. Retail \$77.05. Each.....\$38.52



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

LINE VOLTAGE
THERMOSTATS

HEATING-VENTILATING CONTROL

For Farm and Commercial Applications, Single and Two-Stage Controls



\$16.84 Extremely sensitive to temperature change. Switches on temperature rise or drop. Dial range adj. from 30° to 110°F. 3 1/4°F fixed differential. SPDT switch rated at 16 amps, 120V, 60 Hz inductive load—2500 watts. 22 amp non-inductive (heating), 8 amps, 240V, 60 Hz, inductive load—5000 watts, 22 amp non-inductive. Compact, helical temperature sensing element allows maximum sensitivity to temperature changes. Housed in NEMA 1 enclosure. Corrosion resistant construction. Shpg. wt. 12 oz. UL listed.

No. 2E206. Single-Stage Thermostat. Retail \$40.50. Each.....\$16.84

TWO-STAGE THERMOSTAT for controlling 2-speed ventilating fans; two exhaust fan applications for combination of heating and ventilating or cooling systems. Two separate SPDT switches with one switch operating 3°F higher than second switch. Range adj. from 30° to 110°F. Other specifications same as above. Shpg. wt. 1 lb. UL listed.

No. 2E207. Two-Stage Thermostat. Retail \$61.00. Each.....\$24.73

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS



ELECTRIC HEAT THERMOSTAT

SPST and DPST Types. Heavy-Duty, Self-Cleaning Contacts

\$7.67 Controls non-inductive electric heating loads up to 5000 watts at 240V, or 2500 watts at 120V, 22 amps—heat cable, electric baseboard, glass panel. Control knob is an extra-sensitive element that senses radiant heat or room temperatures to provide superior control of room comfort. Silent switch has large, self-cleaning slide-action contacts that assure noiseless operation at all times. Range: 55° to 85°F, ½° diff. No. 2E174 has "no heat" or "cold" position. SPST and DPST models. Styled gold and beige finish. 4¾ H x 2¾ W x 1" D on wall surface; overall 2" deep. UL listed. Shpg. wt. 8 oz.

Type Switch	Stock No.	Retail	Each
SPST	2E173	\$15.34	\$7.67
DPST	2E174	18.64	9.32



ATTIC FAN SPST THERMOSTAT

Controls Attic Ventilators, Fans, Dampers. Line Voltage

\$7.37 Economical line voltage thermostat controls temperature in attic, crawl space, etc. Turns fan on and off automatically. Heavy-duty snap-action switch closes on temperature rise. Installs near fan in standard 2x4" conduit box. For up to 3/4 HP, 115V or 1½ HP, 230V inductive motor loads. Range 90 to 130°F. 15°F fixed differential. Contacts make 15°F above set point. Ivory styrene case, with attractive anodized aluminum face plate. 4¾ H x 2¾ W x 2" D. (1" D on surface.) UL & CSA listed. Shpg. wt. 5 oz.

No. 2E340. Attic Fan Thermostat. Retail \$15.00. Each.....\$7.37

HEAVY-DUTY LINE VOLTAGE THERMOSTATS

For 120 or 240VAC Heating Control. Tamper-Proof Model



\$28.67 2-wire thermostats for line voltage control of unit heaters, fan coil units, etc. Sensitive, fast-acting hydraulic element. Extra-rugged magnetic switch with heavy, pure silver contacts in dust-proof enclosure. Heavy-duty case prevents abuse of mechanism. Set-point dial of standard model has manual On position for constant fan operation in summer. Tamper-proof model prevents unauthorized adjustment; has special wrench for unlocking case. Mounting plate fits standard conduit box. 30 to 100°F alcohol bulb thermometer. Fixed 2°F differential. SPST open-on-rise switch rated 14A @ 120VAC & 7.0A @ 240VAC inductive, 25A @ 120VAC & 22A @ 240VAC non-inductive. UL listed. Gray case with chrome trim. 6 H x 2¾ W x 2½" D. Shpg. wt. 2 lbs.

No. 2E369

Type	Control Range	Stock No.	Retail	Each
Standard	55 to 85°F	2E369	\$57.33	\$28.67
Tamper Proof	55 to 95°F	2E477	57.33	28.67



LIGHT-DUTY LINE VOLTAGE THERMOSTAT

SPST. Heat Anticipated. Built-In, Adjustable Dial Locks

\$16.74 Designed specifically for use with unit heaters, fan coil units, circulators, etc., of 120V or 240V rating. Styled with instrument appearance in spun-silver and black. Heat anticipated for narrow differential. Large easy to adjust knob with positive Off position on dial. Built-in adjustable stops to lock dial or provide minimum setting, maximum setting, or limited range setting. Range 40° to 85°F. 1°F differential. Open on rise. Large thermometer. Contact rating, 5.8A at 120VAC, 2.9A at 240VAC. UL listed. 4¾ H x 2¾ W x 1½" D. Shpg. wt. 11 oz.

No. 2E347. Line Voltage Thermostat. Retail \$33.47. Each.....\$16.74

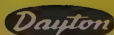


LINE-VOLTAGE SPDT THERMOSTAT

Control 115 or 230V Heating or Cooling Systems

\$7.53 Two-wire, line voltage thermostat. Use on heating or cooling systems. Snap-action switch closes on temperature rise or drop. For up to 1/4 HP, 115V or 1/2 HP, 230V inductive motor loads. Controls blowers, furnace fans, stokers, etc. Range 60° to 90°F, min. 3°F fixed differential. Beige styrene case with attractive anodized aluminum face plate. 4¾ H x 2¾ W x 2½" D. (1½" D on surface). 50-90°F. thermometer. UL and CSA listed. Shpg. wt. 1½ lb.

No. 2E158. Heating or Cooling Thermostat. Retail \$15.00. Each.....\$7.53



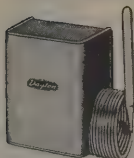
AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

LINE VOLTAGE THERMOSTATS

REMOTE BULB SPST THERMOSTAT

Open on Rise, Fail-Safe Switch. Insertion-Type Element



\$22.45

5 ft. capillary tube allows switch mechanism to be mounted remotely from sensing bulb. Unit can be used as a high limit or low limit operating control on hot water or other system media non-corrosive to copper. Fail-safe switch opens control circuit if remote bulb loses charge. Supplied with 1/2" NPT male threaded packing nut for direct insertion in liquid temperature control applications. Set point range adjustable 140 to 240°F. Differential adjustable 10-35°F. Full-load contact ratings: 8A @ 120VAC, 6A @ 240VAC, 4.8A @ 25VAC, 0.25A @ 0.25 to 12VDC. UL listed. 3 1/2" H x 3" W x 2 1/4" D. Gray enamel finish. Shpg. wt. 1 1/2 lbs.

No. 2E375. Remote Bulb Thermostat. Retail \$44.92. Each.....\$22.45

REMOTE BULB SPDT THERMOSTAT

For Heating or Cooling Applications. -30°F to +90°F Control Range



\$16.41

Versatile control for heating, cooling or refrigeration systems where sensing element must be remote from switching mechanism. Can also be used as a change-over control or as an outdoor thermostat. Has 5 1/2" L sensing bulb with 8 ft. L capillary. Bulb can be located in any medium which is non-corrosive to copper. Heavy-duty construction. Wide control range, adjustable from -30°F to +90°F. Adjustable 4 1/2" to 40°F differential. SPDT switch rated inductive 7.4A @ 120VAC and 3.7A @ 240VAC. UL listed. Bulb mounting bracket supplied. Gray case. 5 3/8" H x 2 1/4" W x 2 1/4" D. Shpg. wt. 1 1/2 lbs.

No. 2E399. Thermostat. Retail \$32.82. Each.....\$16.41

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS

DORMEYER 5 thru 40 VA CONTROL TRANSFORMERS

For Signals, Controls, Thermostats, Etc. 120 or 240 VAC Primary, 10, 16 or 24 VAC Secondary



\$2.76

No. 4X742
Lots 12

Easier to install than most transformers because Dormeyer units are equipped with all position mount. Quickly mounted to standard 3/8" knock-out hole in mounting foot plate (included) or direct to any style junction or handy box, control enclosures, distribution panels, etc. Where cover plate mounting on handy box is required, order optional No. 4X748 Universal type cover plate listed below. Unique mounting principle eliminates need to inventory same transformer in different mounting styles. UL listed for use with thermostats, damper motors, relays, solenoids, signal devices (bells & chimes) etc. 12" primary leads, stripped 3/4" and twisted. Individually cartoned, 12 per standard pack.

QUANTITY PRICES AVAILABLE ON REQUEST

UNIVERSAL-MOUNT COVER PLATE

For mounting above transformer on front of any "handy" or junction box. Shpg. wt. 8 oz. Mfr's. model TR-146.

No. 4X748. Retail 39c
Each 26c; lots 10.....22c

VA Rated	—Volts, 60 Hz—		Mfr's. Model	Stock No.			Lots 12	Shpg. Wt.
	Primary (Input)	Secondary (Output)			Retail	Each		
5	120	10	DCT5-120	4X742	\$4.31	\$2.87	\$2.76	11 oz.
10	120	16	DCT10-120	4X743	4.31	2.87	2.76	11 oz.
20	120	24	DCT20-120	4X744	4.85	3.23	3.11	1 lb.
20	240	24	DCT20-240	4X745	5.40	3.60	3.47	1 lb.
40	120	24	DCT40-120	4X746	5.75	3.83	3.69	1 lb.
40	240	24	DCT40-240	4X747	5.75	3.83	3.69	1 1/2 lb.

MULTI-CONDUCTOR CONTROL CABLE, IN SPOOLS

2, 3, 4, 5, 6 and 8 Conductor, 18 Ga. For Wiring Heating, Ventilating and Air Conditioning Systems



\$11.03

No. 2W203
Lots 4

Thermoplastic jacketed, insulated cable for connecting thermostats and other controls to heating and air conditioning systems, fans, etc. Can also be used on other low-voltage systems such as door bells, fire detection circuits, etc. 18 ga., 2, 3, 4, 5, 6 and 8 conductor, color coded. UL listed. Sold only in full spools in lengths indicated. Diamond Wire brand.

Gauge/ Cond.	Spool Length	Stock No.	Each	Lots 4	Shpg. Wt.
18/2	500 ft.	1W511	\$14.42	\$12.72	9
18/3	500 ft.	1W742	20.43	18.03	10
18/4	250 ft.	2W203	12.50	11.03	8
18/5	250 ft.	1W906	16.30	14.38	12
18/6	250 ft.	2W204	19.25	16.99	12
18/8	250 ft.	2W205	25.27	22.30	15



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

WARM AIR CONTROLS

FAN & LIMIT CONTROL REPLACEMENT

5, 8 & 11" Element Lengths Replace Many Existing Controls



\$13.82

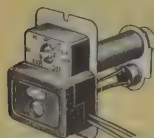
5" Element

Combination fan and limit control regulates blower operation and provides high limit protection on central warm air systems. Choice of 5, 8 & 11" element lengths for replacement versatility. The sensitive bimetal element gives quick and accurate response to changes in air temperature. Latest design snap-action switches assure positive On-Off operation. Fan switch has rugged 14 amp rating at 115V. Limit switch has "universal" contacts for handling all circuits from millivolts to 240V. Fan Off-On differential adjustable from 15° to 280°F over a 50° to 280°F range. Limit switch cut-out adjustable from 20° above fan On setting to 280°F. All units have fan switch. Adjustable mounting bracket supplied, along with mounting facilities on case. Case: 3½ W x 5½ H x 1¼" D. Shpg. wts. 1½, 2 and 1¼ lbs.

Element Length	Stock No.	Retail	Each
5"	2E232	\$28.96	\$13.82
8"	2E372	28.96	13.82
11"	2E139	28.96	13.82

COMPACT FAN & LIMIT COMBINATION

Adjustable Fan On Temperature. Snap-Disc Limit Switch



\$15.13

Combines fan On-Off and high limit control in a single, compact, economical unit. Suitable for new or replacement use. Installs in 1 W x 2¼" H opening; mounting plate is 1½ W x 2¾" H, notched for mounting screws. Fan On temp. adjustable from 80° to 120° F. Fan differential is 35°F fixed. Fixed 180°F. high-limit cut-off. Limit switch is reliable snap-disc type for quick accurate response. Limit contacts rated 10A at 120VAC, 6A at 25VAC. Fan contacts rated 8A at 120VAC. 3" element length. Interchangeable with other similar controls. Shpg. wt. 3 oz.

No. 2E336. Fan and Limit Control., Retail \$30.26. Each.....**\$15.13**

LIMIT CONTROL—INTERCHANGEABLE TYPE

Choice of 3 & 7" Element Lengths. Adjustable 150 to 250° Range



\$5.78

3" Element

Provides high limit protection against excessive temperatures for warm air furnaces. Range 150-250°F. Fixed differential 25°F. For warm air furnaces. Element gives quick, accurate response. Contact structure rated to handle all voltages from millivolts to 240V. 10 amp at 120V, 6 amp. at 240V, or 3 amp. at 12V DC. Complete interchangeability with other similar controls.

Element Length	Stock No.	Retail	Each	Shpg. Wt.
3"	2E147	\$11.55	\$5.78	6 oz.
7"	2E367	12.75	6.37	9 oz.

FAN CONTROL—INTERCHANGEABLE TYPE

Choice of 3 & 8" Element Lengths. Adjustable 70 to 125°F Range



\$8.05

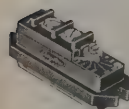
3" Element

Designed to control fan operation in all types of warm air furnaces. Range 70-125°F; adjustable differential 25-50°F. 10 amp. at 120V, or 6 amp. at 240V. 3 & 8" elements. Features easy-to-read dial and mounting for complete interchangeability with similar makes of controls. Shpg. wt. 8 oz.

Element Length	Stock No.	Retail	Each
3"	2E148	\$16.11	\$8.05
7"	2E368	17.24	8.62

FLUSH-MOUNT FAN & LIMIT SWITCHES

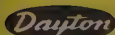
Adjustable. Easy Installation & Wiring. Bimetal Type Element



\$6.32

Simple, compact economical controls for warm air furnaces, unit heaters, etc. Models for fan On-Off control and high limit safety shut-off. Units install in 2¼ x ½" rectangular hole with 2¼" O.C. screw mtg. holes. Sensitive blade type bimetal elements for reliable operation. Contacts rated 8A @ 120 VAC & 4A @ 240VAC. Limit switch contacts also rated 3.2A @ 25VAC. UL listed. 2½ L x 1 W x 1¼" D. Plastic case.

Control	Range, ° F	Diff. ° F	Stock No.	Retail	Each	Shpg. Wt.
Fan	70-160	25	2E370	\$12.64	\$6.32	3 oz.
Limit	100-200	25	2E371	12.64	6.32	3 oz.



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

**WARM AIR
CONTROLS**

SPST & SPDT SNAP-DISC CONTROLS

For Fan/Blower and High Limit Control. Eliminate False Cycling



**SPST
TYPE**

\$4.07 Fixed differential controls for new equipment and replacement use. SPST single-circuit type for fan/blower control and high limit safety, SPDT 2-circuit type for universal use such as controlling 2-speed blowers, high limit alarms etc.



**SPDT
TYPE**

SPST limit controls available in automatic and manual pushbutton reset models. See specifications in table below. Fast, positive snap-action of bimetal disc assures precise control at all times. Separate contact compartment is dust-free and moisture resistant; eliminates false cycling by preventing contact heat from reaching bimetal disc. Mounting holes, 1 1/8" O.C., match standard 3/4" snap disc controls. All models are furnished with tab-to-screw terminal adapters and adapters for surface and insertion mounting. Few moving parts assure long-life service. 1 1/4 H x 1 1/4 W x 1" D. Shpg. wt. 2 oz.

SPST SNAP-DISC CONTROLS

Application	Differential Close	Open	Switch Action	Inductive Rating @120VAC	@240VAC	Pilot Duty Rating	Stock No.	Retail	Each
Fan Control	110°F	90°F		12A	6A	6A @25VAC	2E245		
	120	100		12	6	6A @25	2E246		
	130	110	Close on	12	6	6A @25	2E247		
	140	120	Temp. Rise	12	6	6A @25	2E248	\$8.14	\$4.07
	150	130		12	6	6A @25	2E249		
	160	140		12	6	6A @25	2E250		
Limit Control Auto. Reset	140°F	180°F	Open on	12	6	6A @25	2E251		
	150	190	Temp. Rise	12	6	6A @25	2E252	8.14	4.07
	160	200		12	6	6A @25	2E253		
Limit Control Man. Reset	Man.	160°F	Open on	12	6	6A @25	2E362		
	Man.	180	Temp. Rise	12	6	6A @25	2E363	10.18	5.09
	Man.	200		12	6	6A @25	2E364		

SPDT SNAP-DISC CONTROLS

Applica- tion	Diff. Circuit #1		Diff. Circuit #2		Ind. Rating, Cir. #1		Ind. Rating, Cir. #2		Res. Rating Cir. #2		Pilot Rating Circuit #1	Stock No.	Retail	Each
	Close	Open	Close	Open	@120 VAC	@240 VAC	@120 VAC	@240 VAC	@120 & 240 VAC					
Universal Control	120°F	140°F	140°F	120°F	5.8A	2.9A	10A	5A	25A		125VA, 120-277V	2E365	\$10.18	\$5.09
	170	190	190	170	5.8	2.9	10	5	25		125VA, 120-277V	2E366	10.18	5.09

MANUAL-RESET LIMIT CONTROL

Locks-Out Fan or Blower on Excessive Temperature Rise. Adjustable



\$17.10 Warm air safety control installs in return air duct of air conditioning and ventilating systems and shuts down fan or blower when temperature becomes excessive as from a fire. Trip-free reset lever prevents contacts from being blocked in closed position. Unit conforms to Section 172, National Board of Fire Underwriters Pamphlet No. 90A. Can also be used as a high limit control on warm air systems where gas valve lock-out is desired or required by code. Rod and tube element has high sensitivity, fast response. Adjustable duct mtg. flange permits various element insertion depths into air stream. Replaces most similar controls. Range adjustable 25° to 215°F. Adjustable dial stop. Max. element temp., 300°F. Enclosed, dust-tight SPST contacts rated 16A @ 120VAC, 8A @ 240VAC inductive and 16A @ 120-277VAC non-inductive. Pilot duty rating, 125VA @ 24-600VAC. Gray enamel case is 4 3/4 H x 2 5/32 W x 2 1/16" D. Element length, 9 1/4". Shpg. wt. 2 lbs.

No. 2E383. Limit Control. Retail \$38.00. Each.....\$17.10

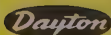
OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

WARM AIR CONTROLS



2-SPEED FAN/BLOWER SPDT CONTROL

Can Also Be Used as High Limit Safety or Single Speed Fan Control

\$17.18 Reliable, wide-range control designed primarily for speed selection in forced air systems with 2-speed blower or fan motors. Motor switches to second speed when air temperature reaches set point. Can also be used as a single speed fan control or high limit safety control. Features 9" long, fast-acting, sensitive hydraulic element which can be bent to any position for best accuracy. Rugged switch mechanism has heavy silver contacts and is enclosed in dust-proof case. Adjustable set point dial has 100 to 350°F range with consistent calibration over entire range. Fixed 20°F differential. Simple to install; mounts flush with no leveling necessary. Stand off bracket furnished for high temperature mounting. SPDT switch rated 4.4A @ 25VAC, 7.4A @ 120VAC & 3.7A @ 240VAC inductive loads. UL listed. Gray enamel finish. 5 3/8" H x 5 1/8" W x 1 3/8" D. Shpg. wt. 1 3/4 lbs. No. 2E381. Fan/Blower Control. Retail \$34.36. Each.....**\$17.18**

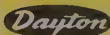
MANUAL-RESET FIRE SAFETY CONTROL

Shuts Down Furnace Blower on Excessive Temp. Rise. 3 Ranges



\$8.51 Senses increase in circulated air temperature and shuts down furnace blower to minimize air supply to a possible fire and prevent distribution of smoke through the duct system. Designed for return air duct installation. Accurate, fast-responding element has 3" insertion length. Must be manually reset after tripping. Three temperature ranges. Contacts rated 10A @ 120VAC and 6A @ 240VAC. UL listed.

Cut-Out Temperature, °F	Stock No.	Retail	Each	Shpg. Wt.
125	2E470	\$17.01	\$8.51	1
165	2E471	17.01	8.51	1
200	2E472	17.87	8.94	1



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

HOT WATER CONTROLS

SPST WELL IMMERSION CONTROL

Fail-Safe Switch. Includes Universal Well Adaptor



\$20.38 Single-function immersion control for use as either a hot water high limit or low limit operator control. Fail safe switch opens contacts in event of element damage. Furnished with universal well adaptor and tube of heat transfer compound to enable replacement without changing well on existing installations. Special conversion bracket also supplied for converting control from horizontal to vertical mount. 2 1/8" element length, 1/2" thread. Range, 140° to 240°F. Differential adjustable 10° to 35°F. SPST open on rise, close on fall switch; rated 0.25A at 0.25 to 12VDC, 4.8A at 24VAC, 8A at 120VAC, 6A at 240VAC. UL listed. 3 1/8" H x 3 1/8" W x 2 1/8" D. Shpg. wt. 1 1/4 lbs. No. 2E348. Immersion Hot Water Control. Retail \$40.76. Each.....**\$20.38**

SPDT WELL IMMERSION CONTROL

Extra-Rugged, Silver Switch Contacts. Includes Well



\$21.49 For use as high limit, low limit, or SPDT switching action. May be mounted either horizontally or vertically. Specially designed element gives fast response to changes in water temperature. Includes 1/2" matching wells. Controls are not critical as to mounting position. Extra-rugged switch with heavy silver contacts, enclosed in dust-proof case. Easily set indicators for exact settings, thru range of 100-240°F, adj. differential 7-45°F. 7.4 amp at 120V or 3.7 amp at 240V. 2 1/8" W x 5 3/8" H x 2 1/8" D. Shpg. wt. 2 1/4 lbs. No. 2E146. Immersion Hot Water Control. Retail \$42.99. Each.....**\$21.49**

REQUEST BULLETIN 808 ON DAYTON AUTOMATIC CONTROLS

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

HOT WATER CONTROLS

TRIPLE-ACTION IMMERSION CONTROL

Provides High Limit, Low Limit & Circulator Control. Well-Type



\$28.11

Designed for use on domestic hot water systems with a tankless coil to provide high limit protection, low limit control and circulator control. Can also be used on other systems to replace dual high limit—low limit or dual high limit-circulator controls. Fail-safe high limit switch opens control circuit if element bulb loses charge. Dual-bulb element fits single well. Furnished with universal well adapter, vertical-to-horizontal well adapter and tube of heat transfer compound. High limit adjustment range, 140° to 240°F. Low limit-circulator adjustment range, 100° to 200°F with adj. 10° to 35°F differential. SPST high limit and SPDT low limit circulator contacts rated 8A @ 120VAC, 6A @ 240VAC, 4.8A @ 25VAC & 0.25A @ 12VDC. UL listed. Gray enamel case with ample knockouts for electrical connections. 3½" H x 3¼" W x 2¼" D. Shpg. wt. 2¼ lbs.

No. 2E376. Immersion Control. Retail \$56.22. Each.....\$28.11

STRAP-ON SURFACE HOT WATER CONTROLS

SPST and SPDT Models. Extra-Rugged Silver Switch Contacts



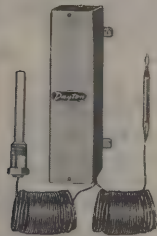
\$13.71

Straps directly to surface of pipe with two adjustable straps included; no tapping of boiler or draining of system is necessary. Mounts at any angle; no leveling is necessary. Specially designed element fits snugly to pipe surface for quick response to changes in water temperature. Extra rugged switch with silver contacts, enclosed in a dust-proof case. No. 2E349 (open on rise) can be used as high limit or safety control. No. 2E350 (close on rise) can be used as operating control to start circulator pump, fan, etc. No. 2E145 replaces high limit controls, low limit controls, circulator controls or combination low limit and circulator controls. Dimensions of all three controls are: 2½" W x 6½" H x 3¼" D. UL listed.

Switch	Action	Adjustment Range, °F.	Differential	Contact Rating		Stock No.	Retail	Each	Shpg. Wt.
				@ 120VAC	@ 240VAC				
SPST	Open on Rise	100-240°	10°	10A	6A	2E349	\$27.43	\$13.71	1½"
SPST	Close on Rise	100-240°	10°	14A	7A	2E350	27.43	13.71	1½"
SPDT	Open/Close on Rise	100-240°	10°	7.4A	3.7A	2E145	31.08	15.54	1½"

INDOOR-OUTDOOR HOT WATER CONTROL

Adjusts Water Temperature According to Outdoor Air Temperature



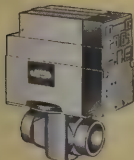
\$57.80

Used with conventional hot water heating systems to correct system lag or overshoot when outdoor air temperature changes. Control increases or decreases frequency of burner operation to maintain proper balance between boiler temperature and outdoor temperature. Cuts fuel costs, provides closer temperature control. Includes outdoor sensing bulb with 30 ft. L. capillary and indoor insertion bulb and well with 15 ft. L. capillary. Insertion bulb well has ½ NPT thread and is 2½" L. beyond thread. Adjustments provided for basic boiler temperature setting and for heat loss of specific installation (reset ratio). Heavy-duty construction. Control range, 80°-250°F. 10°F fixed differential. SPST open-on-rise switch rated inductive 14A @ 120VAC and 7A @ 240VAC. UL listed. Case is 9 H x 3½ W x 4" D. Shpg. wt. 5 lbs.

No. 2E398. Indoor-Outdoor Control. Retail \$115.61. Each.....\$57.80

24V HYDRONIC ZONE VALVE

¾ x ¾" & 1 x 1" Tubing Sizes. Easy Push-In Wiring



\$29.52

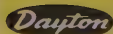
High-torque motor and gear train sealed in oil for silent operation. Push-in wiring panel. Visible automatic recylcing manual operator. Use with 3-wire thermostat. Dayton No. 2E165 or equivalent. Opens and closes in 45 sec. Max. water temp., 240°F; max. system pressure, 50 PSI; operating differential, 15 PSI across valve. 24V. 0.40 amp. 4¾ W x 5¾ H x 2¾" D.

Tube	Stk. No.	Retail	Each	Wt.
¾"	2E163	\$59.03	\$29.52	3
1"	2E164	62.85	31.43	3½

REQUEST BULLETIN 808 ON DAYTON AUTOMATIC CONTROLS

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS

SEE WARRANTY INFORMATION ON PAGE 684



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

HOT WATER CONTROLS

COMPACT 24V HYDRONIC ZONE VALVES

2-Way Body Type. 1/2 & 3/4" Tubing Sizes. Push-In Connections



\$28.35
No. 2E290

These adjustable-flow valves are highly suited for base-board units, fan coils, convectors, etc. Unique design requires no "sweat clearance" for installation. Sweat fitting and push-in type wiring simplify installation. Flow indicator dial simplifies system balancing. Special spring-loaded disc and seat construction assures seal-off. Non-synchronous torque motor operates valve: on command of a 2-wire thermostat, valves open. Open time, 30 sec.; close time, 20 sec. 150 PSI max. pressure, 250° to 40°F temp. range. Non-recycling manual operator provided. Both sizes have auxiliary switch circuit to control burner/chiller and/or circulator. Snap-off cover allows access to all components without removing valve body for convenient servicing. Operator rated 0.35A at 25VAC. Shpg. wt. 2 1/4 lbs.

Tubing Size	Body Length	Max. Press. Diff. Across Valve	Cv	Stock No.	Retail	Each
1/2"	2 5/8"	30 PSI	5.4	2E290	\$56.70	\$28.35
3/4"	2 3/4"	25	6.0	2E291	59.03	29.52



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

GAS SAFETIES

AUTOMATIC GAS PILOT RE-LIGHTER

Re-lights Pilot Electronically. For All Gas-Fired Equipment



\$22.06

Instantly senses pilot outage and provides constant electrical spark until pilot re-ignites—before safety shutdown occurs. Prevents accidental pilot outage due to draft pressure changes, etc. Use with most gas heaters, furnaces, dryers, ovens and water heaters which incorporate a safety shutdown device. Highly recommended for use with Dayton gas unit heaters, especially on inaccessible installations. Operates on time-proved capacitor discharge principle. Unit consists of sensor/electrode element which mounts on pilot and control circuitry housed in fire retardant ABS plastic case. Installs easily; universal mounting hardware included. No changes to existing equipment necessary. 120VAC, 50/60 Hz, 25mA current consumption. 24" L electrode lead. Shpg. wt. 8 oz.

No. 2E338. Gas Pilot Relighter. Retail \$44.00. Each.....**\$22.06**

THERMOCOUPLE PILOT SWITCH

Visual Indication of Pilot Failure. Manual Safety Reset Feature



\$10.65

Opens electrical circuit to main gas valve of any gas heating unit in event of pilot flame failure. Contacts open approximately 45 seconds after flame is extinguished. For use with any standard 30 millivolt thermocouple (not supplied). Switch is equipped with manual reset button for safe lighting of pilot; main valve cannot be energized until reset button is released. Pop-up reset button provides visual indication when switch is opened after flame failure. Interchangeable mounting replaces similar units. Contact ratings are 125VA, 120/240VAC; 90VA, 30VAC max. 3 3/4" H x 2" W x 2 1/4" D. Shpg. wt. 9 oz.

No. 2E231. Pilot Switch. Retail \$21.30. Each.....**\$10.65**

Full-Fact Dayton Motor Label Makes Stocking Easier

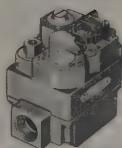
OVER 800 DAYTON MOTOR TYPES now carry Full-Fact labels similar to the one shown. The label illustrates and identifies the specific motor, and lists all its important electrical and mechanical features clearly, for easy reference by dealer and user. This information aids in proper selection, simplifies stockkeeping and order filling, and helps prevent misapplications and returns to dealers. Aside from their obvious utility, Dayton Full-Fact labels, and the distinctive white Dayton carton, reflect pride in the product, and assure the buyer of quality and the integrity of the maker.



SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS

COMPACT MULTI-FUNCTION GAS VALVES

24V and Millivoltage Models. Replaces Many Existing Gas Valves

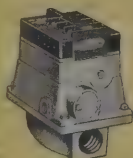


\$33.14 Combines main gas valve, 100% thermocouple operated line interrupter, pressure regulator, and "Off-Pilot-On" gas cock in a single body. Replaces many existing gas valves. Basic valve body is $\frac{3}{4} \times \frac{3}{4}$ " female pipe thread and is supplied with two $\frac{3}{4}$ " male $\times \frac{1}{2}$ " female and one $\frac{1}{2}$ " male $\times \frac{3}{8}$ " female reducers. Valve is reliable, silent, relay actuated type with sealed relay coil. Main seat seals with line pressure. $\frac{1}{2}$ PSI max. pressure. Mounts in any position—large, square, wrench boss. Tab/screw terminals for easy wiring. -40° to $+175^{\circ}$ F ambient rating. Adj. pilot gas, $\frac{1}{4}$ " pilot line connector. Regulator adj. 2 to 5" W.C. Pressure tap provided. Cast aluminum construction, A.G.A. certified. 0.23A current consumption on 24VAC model. $\frac{4}{16}$ H \times $2\frac{7}{8}$ W \times $3\frac{3}{8}$ " port to port. Shpg. wt. $2\frac{1}{2}$ lbs.

Voltage	BtuH Capacity			Stock No.	Retail	Each
	$\frac{3}{4} \times \frac{3}{4}$ "	$\frac{1}{2} \times \frac{1}{2}$ "	$\frac{1}{2} \times \frac{3}{8}$ "			
24V, 60 Hz	325,000	250,000	100,000	2E402	\$66.28	\$33.14
750 Millivolts	325,000	250,000	100,000	2E401	66.28	33.14

24-VOLT AUTOMATIC GAS VALVE

$\frac{1}{2} \times \frac{1}{2}$ " & $\frac{3}{4} \times \frac{3}{4}$ " NPT Port Sizes. For Natural & LP Gas

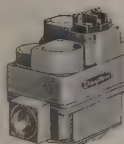


\$18.99 Single-function, low-voltage automatic valve for any domestic or commercial gas heating application. Designed to be used with either an electrical or mechanical automatic pilot. Entire operating mechanism is contained in a sealed compartment filled with heavy-duty silicon oil which suppresses all internal noise. Not affected by long usage or ambient temperature extremes. Easily mounted in any position on a horizontal pipe line; requires no bleed line. Body length conforms to NEMA standards, allowing direct replacement of other equivalent size valves. $4\frac{3}{8}$ H \times $2\frac{3}{8}$ W. $2\frac{3}{4}$ " L port to port. A.G.A. certified for all gases.

Valve Size	Pilot Conn.	Amps @ 25 V	Stock No.	Retail	Each	Shpg. Wt.
$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	0.58	2E228	\$37.99	\$18.99	$1\frac{1}{4}$
$3\frac{1}{4}$ "	$1\frac{1}{8}$ "	0.58	2E229	44.10	22.05	2

MILLIVOLTAGE GAS VALVE

For Self Generating Heating Control Systems. $\frac{1}{2}$ " NPT Pipe Size



\$24.84 Single-function millivoltage gas valve for use with 750-millivolt thermostat and pilot generator on unit heaters, furnaces, space heaters, etc. $1\frac{1}{2}$ " NPT inlet and outlet. 250,000 BtuH max. capacity. Special main valve seat seals with gas line pressure assuring positive gas seal-off and protection against leakage due to foreign matter. -40° to $+175^{\circ}$ F ambient temperature operating range. Combination tab/screw terminals and easy-grip pipe bosses simplify installation. Valve operates in any position. Cast aluminum body, $4\frac{7}{16}$ H \times $2\frac{7}{8}$ W. $3\frac{1}{16}$ " port to port. AGA certified for use with all gases. Shpg. wt. $2\frac{1}{4}$ lbs.

No. 2E380. Gas Valve. Retail \$49.69. Each.....**\$24.84**

MANUAL GAS SAFETY VALVE and COCK

Provides 100% Gas Shut-Down on Pilot Failure. $\frac{1}{2}$ " NPT Ports



\$16.25 For use on gas heaters with single function main valve or on manually operated gas burners. 142,000 BtuH capacity. Compact thermocouple-actuated valve shuts off both main and pilot gas supplies in event of pilot flame failure. Equipped with Off-Pilot-On gas cock for safe pilot lighting. Requires 30mV thermocouple. Suitable for all domestic heating gases at $1\frac{1}{2}$ PSI max. Compression fitting for $1\frac{1}{4}$ " O.D. pilot gas tube provided. Adjustable pilot gas flow. AGA certified. $4\frac{3}{4}$ " H \times $2\frac{3}{4}$ " D. $2\frac{3}{8}$ " port to port. $\frac{1}{2}$ " NPT ports; $\frac{3}{8}$ " NPT adapter included. Mounts in any position. Cast aluminum body. Shpg. wt. 9 oz.

No. 2E374. Safety Valve and Cock. Retail \$32.50. Each.....**\$16.25**

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

GAS PILOTS

750 MILLIVOLT GENERATOR WITH PILOT

Replaceable Generator Cartridge. 32" Armored Leads. For Natural Gas



\$9.92 Combination burner pilot and 750mV generator for operating self-generating heating control systems. Includes replaceable generator cartridge with 32" long armored leads terminating in spade lug connectors. Universal mounting bracket for vertical or horizontal installation. 1/4" OD gas tubing compression fitting. For natural gas only. Shpg. wt. 12 oz. Replaceable cartridge listed below. For millivoltage thermostat and gas valves see listings on nearby pages.
No. 2E469. Millivoltage Generator & Pilot. Retail \$19.84. Each.....**\$9.92**

750mv POWER GENERATOR CARTRIDGE

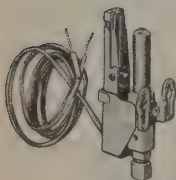
Power for 750mv Self-Generating Control Systems. AGA Certified



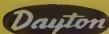
\$8.06 Replacement power cartridge for 750 millivolt self-generating heating control systems. Widely used in room heaters, etc. Screw-in type with adapter for use with various types of pilots. Has 32" L armored cable leads with split-spade terminals. Shpg. wt. 3 oz.
No. 2E446. Generator Cartridge. Retail \$16.13. Each.....**\$8.06**

DIFFERENTIAL-EXPANSION AUTOMATIC PILOT

Fast Burner Ignition. Shuts Off Main Gas Valve on Pilot Failure



\$16.74 Provides fast main burner ignition in any natural gas heating system or unit heater. Precision orifice delivers a clean, efficient flame on a horizontal plane, 90°F exposed to thermal element. Safety thermal element quickly opens electrical circuit to the automatic main gas valve approximately 30 seconds after pilot flame is extinguished or reduced to where it will not ignite main burner properly. Automatic recycling eliminates need for manual resetting of pilot after flame failure. Pilot immediately resumes proper operation when re-lighted or when gas pressure becomes normal. Unit is of heavy-duty, stainless steel construction with pure silver contacts for long, trouble-free life. No adjustments required. 40" armored asbestos insulated leads, compression fitting for 1/4" OD gas tubing, and mounting bracket. 60 VA, 30 VAC. 4 1/16" H x 5/8" W x 1 1/8" D. AGA listed for natural gas only. Shpg. wt. 8 oz.
No. 2E243. Automatic Pilot. Retail \$33.48. Each.....**\$16.74**



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

OIL BURNER CONTROLS

OIL BURNER PRIMARY CONTROL

Constant and Intermittent Types. Universal Replacement



\$23.20 Replaces any brand stack switch for use with any 2-wire or 3-wire heating thermostat. Has manual-reset, line voltage safety switch for additional protection. No. 2E161 replaces intermittent or constant ignition types, No. 2E294 replaces constant ignition type only. Rated 7.4 amps. at 120V, for burner motor and 3 amps. at 120V for ignition transformer. UL listed. 4 1/4" W x 6 3/8" H x 3 1/2" D. Ample wiring space. Supplied with curved stack mounting plate. Dayton brand.

Type	Stock No.	Retail	Each	Shpg. Wt.
Intermittent Ignition	2E161	\$49.38	\$24.69	3 3/4
Constant Ignition	2E294	46.40	23.20	3

Quantity Prices on Motors for OEM Production Use — Fast Shipments

Quantity motor prices are available on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs

can be shipped from Grainger's stock as needed. Carloads kept in Chicago Distribution Center. Ask your Grainger salesman.

SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

OIL BURNER CONTROLS

OIL PRIMARIES WITH FLAME DETECTOR

Constant and Intermittent Types. Rapidly Sense Flame Failure



2E341



2E343

\$28.34 Fast-responding oil burner primary controls include flame detector with cadmium sulfide sensor and solid-state control circuit. Can be used with 2-wire or 3-wire, low voltage or line voltage thermostats. Unit automatically opens electrical circuit of the thermostat, motor, or ignition transformer in event of flame or ignition failure. 45 second timing. Safety contacts in line voltage circuit. No. 2E341 has safety switch indicator light. Ruggedly constructed with "high ambient" motor relay. Components not affected by vibration, high temperatures, or fluctuating motor loads. Sensor cell is furnished with mounting bracket, control unit mounts on standard 4 x 4" conduit box. External low voltage terminals. 120VAC, 60 Hz. 0.4A thermostat current. 10A full load motor rating. 3A ignition transformer rating. UL recognized component. No. 2E341 is 4 1/4" H x 4 1/4" W x 2 3/4" D, No. 2E343 is 5 3/8" H x 4 1/2" W x 2 3/4" D.

Ignition Type	Stock No.	Retail	Each	Shpg. Wt.
Constant	2E341	\$56.68	\$28.34	2 1/4
Intermittent	2E343	70.76	35.38	2 1/4

FLAME DETECTOR ASSEMBLY — Complete cadmium sulfide sensor cell, socket and mounting bracket assembly with lead wires for replacement use. Fits Nos. 2E341 and 2E343 oil burner primary controls listed above and earlier No. 2E244. Shpg. wt. 2 oz.

No. 2E360. Retail \$12.46. Each.....**\$6.23**

SENSOR CELL ONLY — Replacement cadmium sulfide sensor cell for primary control flame detectors using a bayonet type socket. Fits controls above and earlier Dayton No. 2E244 oil burner primary control. Installs in existing socket of flame detector. Shpg. wt. 2 oz.

No. 2E361. Retail \$5.76. Each.....**\$2.88**

OIL BURNER IGNITION TRANSFORMER

Interchangeable with Most Other Makes. Adapter Plates Available

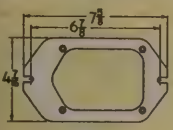


\$16.59 Heavy duty transformer includes all necessary installation accessories, plus optional mounting plates, for adapting to most existing oil burners or for OEM use. Features universal secondary wiring feed-thru connector with multiple knockouts in case, separate primary and secondary wiring compartments, bobbin-wound, double insulated coils and rugged class B insulating materials throughout. Lighter in weight and runs cooler than similar units. Input voltage 120V, 60 Hz, 2.2A. Output voltage 10,000V, 60 Hz, 0.022A. Case is 4 3/4" H x 4 3/8" W x 5 3/8" D. Black finish. Shpg. wt. 8 lbs. Order proper adapter plate listed below.

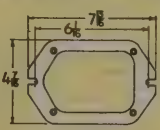
No. 2E473. Ignition Transformer. Retail \$33.18. Each.....**\$16.59**

ADAPTER PLATES FOR OIL BURNER IGNITION TRANSFORMER ABOVE

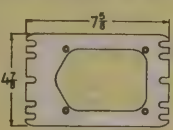
Adapt above No. 2E473 transformer to most existing oil burners. Steel plate bolts to oil burner, transformer bolts to plate. Check dimensions against old transformer mounting before ordering. Slots are 1/16" deep. Can be field modified if necessary. Shpg. wt. 8 oz.



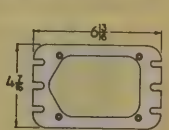
A



B



C



D

No. 6X428. Plate. Retail \$1.16. Each.....**\$0.80**

No. 6X429. Plate. Retail \$1.16. Each.....**\$0.80**

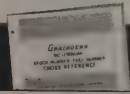
No. 6X430. Plate. Retail \$1.16. Each.....**\$0.80**

No. 6X431. Plate. Retail \$1.16. Each.....**\$0.80**

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

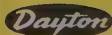
Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.



SEE CONTROLS REPLACEMENT GUIDE AT END OF DAYTON CONTROLS

SEE WARRANTY INFORMATION ON PAGE 684



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

RELAYS



SPST
2E143

DPST
2E144



24-VOLT SWITCHING RELAYS—SPST OR DPST

For Low Voltage Control of Line Voltage Loads. Built-In Transformer

\$14.07

No. 2E143

Compact relay/transformer packages permit use of low voltage thermostat to control operation of 120 volt line loads. Mounts on standard 4 x 4" junction box. Built in 35VA transformer and relay have unitized magnet structure for reliability and long life. Extra-rugged switching relay has enclosed, weld-resistant, silver cadmium oxide contacts for trouble-free service. Line voltage contacts rated 10 amps, or 1/2 HP per pole. DPST model has additional contact set for 24VAC or 3 to 12 VDC circuits. Thermostat current, 0.28 amp. Easily accessible, clearly marked terminals, ample wiring space and knockouts. Color coded line voltage leads, 8" long, for easy wiring. 4 1/4" H x 2 3/4" W x 2 3/4" D. UL recognized component. Shpg. wt. 2 1/2 lbs.

Switch	Stock No.	Retail	Each
SPST	2E143	\$28.14	\$14.07
DPST	2E144	35.49	17.75

AIR CONDITIONING & FAN RELAY CENTER

For up to 35VA Loads. SPDT Switch Action. Compact Case

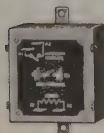


\$13.97

Combines SPDT relay in the same enclosure with a 40VA transformer. Powers loads up to 35VA in addition to load of built-in relay. Five convenient terminals permit control to serve as wiring center for all low voltage wiring. SPDT switch action permits use with either single speed or 2-speed motors. Mounts to standard 4 x 4" conduit box. Thermostat current, 0.28 amp. at 24VAC. Normally open contacts rated 16A at 120VAC. Normally closed contacts rated 10A at 120VAC. UL listed. 4 3/4" H x 4 1/4" W x 2 3/4" D. Shpg. wt. 2 1/2 lbs. No. 2E342. Relay Center. Retail \$27.93. Each.....**\$13.97**

ELECTRIC HEAT ELEMENT SEQUENCER

Controls Element Turn-On in Furnaces, Duct Heaters, Strip Heaters



\$12.98

Compact control designed for installation in prewired panels of central or duct-type electric heaters. Provides automatic on-off time delay sequencing of heater elements. Used in multiples as required. Requires 24V thermostat. As thermostat calls for heat, bimetal heater closes two contact sets after a time delay; main contacts energize heating stage, auxiliary contacts make circuit to bimetal heater of next sequencer control. All sequencers can be staged on and off, or staged on and then turned off by first sequencer. Ambient-compensated for range of -20° to +150°F. Mounting angle is non-critical. 45 sec. on and off delay. Main contacts rated 25A non-inductive, 6 KW @ 240VAC & 3 KW @ 120VAC. Auxiliary contacts rated 1A @ 30VAC. Thermostat current, 0.15A @ 25VAC. UL listed. 2 1/4" H x 2 3/8" W x 1 1/2" D. 3 3/32" O.C. mounting holes. Shpg. wt. 6 oz. No. 2E377. Element Sequencer. Retail \$25.96. Each.....**\$12.98**

ELECTRIC HEAT FAN DELAY RELAY

Time Delay Fan/Blower Control for Electric Furnaces & Duct Heaters



\$12.82

Automatically turns fan or blower on 15 secs. after first heater element is energized, off 90 secs. after first element is de-energized. Bimetal heater element of relay is actuated by 24V thermostat simultaneously with first element sequencer. Used in new installations or for replacement. Ambient compensated for range of -20° to +150°F. Mounting angle is non-critical. Contacts rated for inductive loads of 16A @ 120VAC and 12A @ 240VAC. Thermostat current, 0.15A @ 25VAC. UL listed. 2 1/4" H x 2 3/8" W x 1 1/2" D. 3 3/32" O.C. mounting holes. Shpg. wt. 6 oz. No. 2E378. Delay Relay. Retail \$25.64. Each.....**\$12.82**

SILENT RELAY FOR ELECTRIC HEAT

SPST. Controls Loads up to 6000 Watts at 240/277 Volts

\$16.36

Used with 24 volt thermostat to control non-inductive electric heat loads of up to 6000W at 240/277 volts. Built in transformer for convenience in mounting at power source with attached conduit hub. Unit can be mounted at any angle. SPST normally open switch. 45-second time delay. Thermostat current, 0.2A. Non-inductive contact rating, 25A at 240/277VAC. Motor rating, 12A at 240VAC. UL listed. 2 1/4" H x 4 1/2" W x 1 1/2" D. Shpg. wt. 1 1/4 lbs. No. 2E346. Silent Relay. Retail \$32.72. Each.....**\$16.36**





AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

RELAYS

1 or 2-SPEED FAN/BLOWER SPDT RELAY

For Heating & Air Conditioning. Requires 24VAC Supply

\$8.33

Provides low voltage control of blowers and other line voltage loads on heating, air conditioning, and combination heating/air conditioning systems where 24V power supply is already available. Can be used with single or two-speed motors. Equipped with five color-coded leads with ends stripped for ease of wiring. $\frac{1}{2}$ " conduit hub allows mounting to standard electrical box; mounting tabs also provided. Thermostat current, 0.28A at 24VAC. Normally open contacts rated 16A at 120VAC, normally closed contacts rated 9.8A at 120VAC. UL listed. Compact $2\frac{1}{16}$ " H x $2\frac{1}{16}$ " W x $1\frac{1}{2}$ " D case. Shpg. wt. 12 oz.

No. 2E461. SPDT Relay. Retail \$16.65. Each.....**\$8.33**



AUTOMATIC CONTROLS

For Heating, Air Conditioning, Ventilating Systems

ACCESSORIES

MULTI-PURPOSE SPDT AIR SWITCH

Responds to Positive, Negative or Differential Air Pressure

\$18.75

More versatile than a sail switch and easier to install. Widely used to control electronic air cleaners, humidifiers, refrigeration equipment and in many other applications where air flow must be proved. Can be activated by positive, negative or differential air pressure. Will not flutter or malfunction due to shock and vibration. Control range is field adjustable from 0.07" to 12" WC. Differential increases from 0.02" WC at minimum set-point to 0.8" WC at maximum set-point. Furnished with $\frac{1}{4}$ " OD tubing nuts, ferrules, and one 6" length of $\frac{1}{4}$ " OD flexible tubing. Operates in ambient temperatures of -40° to $+180^{\circ}$ F. SPDT switch rated 2.5A at 120V, 1.24A at 240V, 1.07A at 277VAC. UL listed. $6\frac{1}{8}$ " H x $3\frac{3}{8}$ " W x $3\frac{1}{8}$ " D. Shpg. wt. 1 lb.

No. 2E462. Air Switch. Retail \$37.50. Each.....**\$18.75**

RAINPROOF DISCONNECT SWITCH

For Outdoor Lighting, Air Conditioners, Pumps, Etc.

\$11.40

Dayton non-fusible, pullout disconnect switch in NEMA 3R outdoor rainproof enclosure—a must where NEC code requires disconnect switch within sight of air conditioning equipment, pumps, lighting and other installations. Rated 60 amps, 120/240 VAC, single phase, 2 or 3 wire, for up to 10 HP motors. Enclosure can be padlocked. Overall dimensions: $10\frac{1}{8}$ " H x 6 $\frac{1}{8}$ " W x 4" D. Gray finish. UL listed. Dayton brand. Shpg. wt. 7 lbs.

No. 5X672. Dayton Rainproof Disconnect Switch. Ret. \$22.80. Each **\$11.40**

THERMOCOUPLE KITS FOR REPLACEMENT

\$1.76

Dayton design incorporates a complete stainless steel tip for long life and greater unit strength. Each thermocouple is individually packed with 5 adapters to facilitate replacing most makes and styles in the field on 30 millivolt systems. Simple instructions insure quick, easy installation. Shpg. wt. 4 oz. Stock several of each size.

Lgth.	Stock No.	Retail	Each
18"	2E166	\$3.52	\$1.76
24"	2E140	3.72	1.86
30"	2E141	3.80	1.90
36"	2E142	4.04	2.02
48"	2E337	4.54	2.27

HIGH-IMPACT THERMOSTAT GUARD

Fits Most Low and Line Voltage Thermostats. Permanent 8-Tumbler Lock

\$6.90

Protects thermostat from impact damage, tampering, unauthorized adjustment. Fits horizontal or vertical rectangular thermostats up to 7 x $4\frac{1}{2}$ x 3" D and round thermostats up to $4\frac{1}{2}$ " dia. x 3" D. Guard has more than adequate ventilation. Will not affect thermostat calibration or sensitivity. Integral tumbler lock is permanently attached to guard. One key fits all of these guards (1 key furnished). Easy to install; no drilling required, mounting hardware and template supplied. Constructed of high-impact Butyrate plastic which is completely transparent. $4\frac{3}{4}$ x $7\frac{1}{2}$ x $3\frac{1}{4}$ " D. Shpg. wt. 1 lb.

No. 2E379. Thermostat Guard. Retail \$13.80. Each.....**\$6.90**

HOW TO USE THE REPLACEMENT GUIDE

1. Find type of control being replaced; i.e. Thermostats, 24V Heating Only.
2. Under control type, find manufacturer's model number of existing control; i.e. Thermostats, 24V Heating Only, Honeywell: T87F.
3. Bottom line under list specifies replacement Dayton control for that manufacturer's model number.

THERMOSTATS

24V HEATING ONLY

HONEYWELL: T87F, T222A, W-RODGERS: 1E30-910, 1F30-910, 1E31-910, 1F31-910, 1E36-910. GENERAL: T91A, T91K, T99H. PENN: T1A, T3, T50. R'SHAW: RT100, T80.
USE DAYTON NOS. 2E137, 2E156, 2E215, 2E222 OR 2E466

24V HEATING/COOLING

HONEYWELL: T87F with Q539A. W-RODGERS: 1F36-910 with S20-1. GENERAL: T91H, T92C, T331C. PENN: T12A. R'SHAW: TS400 with DA490.
USE DAYTON NOS. 2E137 WITH 2E467, 2E222 WITH 2E223, 2E273 OR 2E468

MILLIVOLTAGE TYPE

HONEYWELL: TS86, TS819, TS822. W-RODGERS: 1E30-913 1F30-913. GENERAL: T80AV100J, T99AV101J, T99AV105J.
USE DAYTON NO. 2E233 WITH 2E150

24V ZONE TYPE

HONEYWELL: T26A, T28A. W-RODGERS: 1E35-910, 1F35-910. GENERAL: T99E, TC99E. PENN: T20L, T5001. R'SHAW: RT200 TX200.
USE DAYTON NO. 2E165

THERMOSTATS Continued

HEAT-COOL AUTO-CHANGEOVER

HONEYWELL: T872A with Q672E, T870H with Q412. W-RODGERS: 1C74-2. GENERAL: T431A-G.
USE DAYTON NO. 2E397

HEAT PUMP STAGING TYPE

HONEYWELL: T872C with Q672E. W-RODGERS: 1C71-2. GENERAL: T333C100H.
USE DAYTON NO. 2E344

REMOTE BULB TYPE

HONEYWELL: T4061A, L6018C. W-RODGERS: 1687-9, 1609. GENERAL: L39, L49, L39TA. PENN: A19ABA, A19ABC. RANCO: 010 series, 016-102.
USE DAYTON NO. 2E399

LIGHT-DUTY LINE VOLTAGE

HONEYWELL: T451A. W-RODGERS: 182-101, 182-102. GENERAL: T71A, T220A. GENERAL: 826. R'SHAW: TH500.
USE DAYTON NO. 2E347

HEAVY-DUTY LINE VOLTAGE

HONEYWELL: T42A, T424A, T442E, T442J, T473A, T491B. W-RODGERS: 152-9. GENERAL: L37A, T71A, T72A, T77A. PENN: 826, 826H, T872A.
USE DAYTON NO. 2E389

TAMPER-PROOF LINE VOLTAGE

HONEYWELL: T4051A-1003. W-RODGERS: 152-10.
USE DAYTON NO. 2E477

Request Bulletin 808 on Dayton Controls
From Your Grainger Salesman or Office

DAYTON AUTOMATIC CONTROLS REPLACEMENT GUIDE CONTINUED NEXT PAGE

ARNO 1½ & 2" MULTI-PURPOSE DUCT TAPE

Heavy-Duty & Economy Grades. 1½ & 2" Widths. Aluminum & Black Colors



\$2.52

No. 6X269
Lots 8

Heavy-Duty Duct Tape—Top quality, high-strength cotton duct tape with fused vinyl coating. Designed for severe environments both indoors and outdoors. Completely waterproof and vapor proof; adheres to any surface permanently. Used for sealing all types of heating and air conditioning ductwork. Total thickness 14 mil. Tensile strength 55 lbs./in. width; 50 oz. per in. width adhesion to steel. 60-yard rolls, individually sleeved.

Economy Grade Duct Tape—For all indoor applications. Provides good strength, moisture resistance, and low price. Excellent for sealing ductwork, packaging, and many other indoor applications. Total thickness 15 mil. Tensile strength 40 lbs./in. width; 60 oz. per in. width adhesion to steel. Cloth tape has polyethylene film lamination. 60 yard rolls, individually sleeved.

HEAVY-DUTY DUCT TAPE

Tape Width	Color	Mfr. No.	Stock No.	Retail	60 Yds. Each	Lots 8	Lots 8	Shpg. Wt.
1½"	Aluminum Black	C511 C504B	2X911	\$5.64	\$4.34	—	\$4.05	2
			6X267	5.64	4.34	—	4.05	2
2	Aluminum Black	C511 C504B	2X912	7.55	5.81	\$5.43	—	2½
			6X268	7.55	5.81	5.43	—	2½

ECONOMY GRADE DUCT TAPE

1½"	Aluminum Black	C520 C519B	5X784	\$3.78	\$2.91	—	\$2.72	2
			6X269	3.51	2.70	—	2.52	2
2	Aluminum Black	C520 C519B	5X785	5.07	3.90	\$3.64	—	2½
			6X270	4.68	3.60	3.36	—	2½



PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you phone Grainger's for the equipment or supplies you want to pick up. Our people can have your merchandise ready to go when your truck arrives.

THERMOSTATS Continued

ELECTRIC HEAT, SPST

HONEYWELL: T498A. W-RODGERS: 1A65-41. GENERAL: 77A. PENN: 800A.

USE DAYTON NO. 2E173

ELECTRIC HEAT, DPST

HONEYWELL: T498B. W-RODGERS: 1A66-41. GENERAL: 770. PENN: 800B.

USE DAYTON NO. 2E174

ELECTRIC FURNACE

HONEYWELL: T87F with Q539J1006, T834A1261 with 634G1033. W-RODGERS: 1F56-306. GENERAL: T199AL103. 'SHAW: TX400-400 with DA490-401.

USE DAYTON NO. 2E476

GAS BURNER CONTROLS

24V MULTIFUNCTION VALVE

HONEYWELL: V8280, V8146. W-RODGERS: 3601, 3602, 3603, 561, 3606. GENERAL: B50, B57, K40, K47. R'SHAW: 110, 200, 1210, 1300, 2000. CONTROLS CO.: CC150, CC166, C250, CC252.

USE DAYTON NO. 2E182

COMPACT 24V MULTIFUNCTION VALVE

HONEYWELL: V8280, V8146, V800A, V801A. W-RODGERS: 3603, 3601, 3602, 3603. GENERAL: B50-B57, K40-K47. 'SHAW: 110, 1000, 1210, 1300, 2000. CONTROLS CO.: C150, CC166, CC250, CC252.

USE DAYTON NO. 2E402

COMPACT 750mV MULTIFUNCTION VALVE

HONEYWELL: VS821A, VS8100, VS8200. W-RODGERS: 3661. U. ENERAL: B67. R'SHAW: 1200, 1210.

USE DAYTON NO. 2E401

24V GAS VALVE

HONEYWELL: V80A, V8202A. W-RODGERS: 2504, 2509, 25G01 5G03. GENERAL: K3A. PENN: 91, 926.

USE DAYTON NO. 2E228 OR 2E229

750mV GAS VALVE

HONEYWELL: VS8187. W-RODGERS: 36C21U-200. GENERAL: 60Y.

USE DAYTON NO. 2E380

MANUAL GAS VALVE

-RODGERS: 764-1, 764-2. GENERAL: MR1, MR2, MR4, MR5 ENN: H14, H15, H17, H18, H19.

USE DAYTON NO. 2E373 OR 2E374

THERMOCOUPLE PILOT SWITCH

HONEYWELL: C434. W-RODGERS: 30E02-1. GENERAL: 100Y. PENN-BASO: A850.

USE DAYTON NO. 2E231

THERMOCOUPLES

HONEYWELL: Q234, Q235, Q300, Q500, Q504, Q309A for rner types Q303, Q305, Q314, Q315, Q391. W-RODGERS: H02A, B, E, G. GENERAL: 2600E Series. R'SHAW: Old Style d., New Style Ribbed, w/o Limit Switch Adaptor.

USE DAYTON NOS. 2E140, 2E141, 2E142, 2E166, 2E337

MILLIVOLTAGE PILOT GENERATOR

GENERAL: PG9A. HONEYWELL: C5897.

USE DAYTON NO. 2E469

750mV GENERATOR CARTRIDGE

ENERAL: 101934F32. HONEYWELL: Q313A. WHITE-RODGERS: G01A-32.

USE DAYTON NO. 2E446

OIL BURNER CONTROLS

STACK MOUNT, INTERMITTENT IGNITION

HONEYWELL: R117A, RA117A, R117C, RA817A. W-RODGERS: 610-32. GENERAL: 5520, 5525. PENN: 672, 682. DETROIT: CA701. G.E.: A101AZ. MERCID: JM1.

USE DAYTON NO. 2E161

STACK MOUNT, CONSTANT IGN.

HONEYWELL: R116, RA116A, RA94A, RA416A, RA816A. W-RODGERS: 611-31. GENERAL: 5200, 5230. PENN: 664, 670, 680. DETROIT: CA702. G.E.: A101B. MERCID: JM.

USE DAYTON NO. 2E294

CAD. CELL CONTROL, INTERMITTENT IGN.

HONEYWELL: R8185X1020. W-RODGERS: 669-7 to 401.

USE DAYTON NO. 2E343

CAD. CELL CONTROL, CONSTANT IGN.

HONEYWELL: R8184B1188, R8184D1011. W-RODGERS: 6L68-14 to 65, 668-1 to 430. GENERAL: R-97. PENN: 654, 654H.

USE DAYTON NO. 2E341 OR 2E244

WARM AIR CONTROLS

COMBINATION FAN & LIMIT

HONEYWELL: L401A, L498A, L498B, L4064B, LA101, LA201, LA401A, LS401A. W-RODGERS: 5D41, 5D43, 5D45, 5D46, 5D51, 5D54, 5D55, 5D61. GENERAL: 474, L34, L44GB. PENN: 515AT03. 515AT13. DETROIT: 253, 255, CA118, CA815S, CA816S, CA840S, CA841S, CA842S, CA843S, CA844, CA845. R'SHAW: FAL10; FAL10A2; FAL40; RFL750A, 3; RFL750N.

USE DAYTON NOS. 2E139, 2E232 OR 2E372

COMPACT FAN & LIMIT

W-RODGERS: 759 (3" or 7"). THERMODISC: AFDL. KLIXON (T.T.): 59100.

USE DAYTON NO. 2E338

FAN CONTROL

HONEYWELL: L4028A, E; L4068. W-RODGERS: 5C22. GENERAL: S44, S45. CAMSTAT: CD301A, F14, F214, H37(F), H38.

USE DAYTON NOS. 2E148 OR 2E368

LIMIT CONTROL

HONEYWELL: L4029A, B; L4069. W-RODGERS: 5C02. GENERAL: S44, S45. CAMSTAT: H37(L), L22, L722.

USE DAYTON NOS. 2E147 OR 2E367

SNAP-DISC CONTROLS

HONEYWELL: L4082, L4083. W-RODGERS: 3F01, 3L01, 3L02, 3L03. THERM-O-DISC: 41T, 60T. KLIXON (T.T.): Series 204, 206.

USE DAYTON NOS. 2E245 thru 2E253, OR 2E361 thru 2E366 (Specify Correct Range & Switch Action)

FLUSH-MOUNT FAN CONTROL

W-RODGERS: 757-1. THERM-O-DISC: AF-1.

USE DAYTON NO. 2E370

FLUSH-MOUNT LIMIT CONTROL

W-RODGERS: 758-1. THERM-O-DISC: AL-1.

USE DAYTON NO. 2E371

2-SPEED FAN CONTROL

HONEYWELL: L4040A; LA419A, B; T415A. W-RODGERS: 416-4. GENERAL: 404, L44HE. PENN: 512A, B; 518B.

USE DAYTON NO. 2E381



AUTOMATIC CONTROLS REPLACEMENT GUIDE

Continued from Preceding Page

WARM AIR CONTROLS Continued

AIR SWITCH

HONEYWELL: 5437A, 543A, 5688A. CLEVELAND: AFS145.
WHITE-RODGERS: 770-1.

USE DAYTON NO. 2E482

FIRE SAFETY CONTROLS

HONEYWELL: L4029E. WHITE-RODGERS: 5C06.

USE DAYTON NO. 2E470, 2E471 OR 2E472

HOT WATER CONTROLS

REMOTE BULB THERMOSTAT

HONEYWELL: T415, L4008A, L6008A. W-RODGERS: 11B06-1,
11C06-1. GENERAL: L420B. PENN: L52A.

USE DAYTON NO. 2E375

INDOOR-OUTDOOR CONTROL

HONEYWELL: TA418A-1015,-1023,-1031. W-RODGERS:
1050-1.

USE DAYTON NO. 2E398

SPST SURFACE CONTROL

Open on Temp. Rise

HONEYWELL: LA409A, LA109. W-RODGERS: 1100, 1102
11B02. GENERAL: L53A. PENN: 424.

USE DAYTON NO. 2E349

SPST SURFACE CONTROL

Close on Temp. Rise

HONEYWELL: LA409B. W-RODGERS: 1109, 1111, 1123, 1125
11B09. GENERAL: L53B. PENN: 425.

USE DAYTON NO. 2E350

SPDT SURFACE CONTROL

HONEYWELL: LA209. W-RODGERS: 1127. GENERAL: 53R,
L53C. PENN: 424XB.

USE DAYTON NO. 2E145

SPST IMMERSION CONTROL

HONEYWELL: L244; L444; L454A; L4006A, C; L4007A, C.
W-RODGERS: 11B18, 11C18, 1118, 1120, 1122, 1124, 1126.
GENERAL: L52A, 600D, 650A10, 650D10, 51R. PENN: 440AT02;
440AT12, B; 442AT12; 442AT22. DETROIT: 653, CA655, CA666.

USE DAYTON NO. 2E348

SPDT IMMERSION CONTROL

HONEYWELL: L6006A, B. W-RODGERS: 1131. GENERAL:
L52DB01A1A. PENN: 442AT12XB, 442AT22XB.

USE DAYTON NO. 2E146

TRIPLE-ACTION IMMERSION CONTROL

Combination SPST & SPDT

HONEYWELL: L4081A, B; L6081A. W-RODGERS: 11A61-101,
11C61-101. GENERAL: L52B, L52D, L52K. PENN: 8T16, 8T17

USE DAYTON NO. 2E376

ZONE VALVES to 50 PSI

HONEYWELL: V2008A, V2031A. W-RODGERS: 1301, 1311.
GENERAL: VM-0 (thread). J-EVANS: "J" Series, "Quietrol"
Series. ECONO: VJ1CP, VJ1D0, VJ1E0. ZONVALVE: CS (sweat),
SS (thread). HYDROTHERM: 75-¾, 75-1.

USE DAYTON NOS. 2E163 OR 2E164

HOT WATER CONTROLS Continued

COMPACT ZONE VALVES

3-Way Body Styles

HONEYWELL: V4044A. W-RODGERS: 13A11, 13A12. ERIE:
601, 607, 612, 621, 627, 647. FLAIR: VC6B2. DETROIT: ZV201
J-EVANS: J3, 701. TACO: 560, 561, 562.

USE DAYTON NOS. 2E292 OR 2E293

COMPACT ZONE VALVES

2-Way Body Styles

HONEYWELL: V8043. W-RODGERS: 13A01, 13A02. ERIE:
601, 607, 612, 621, 627, 647. FLAIR: VJ1B2, VJ1C2, VJ1D2,
VJ1E2, VJ2C2, VJ2D2. DETROIT: ZV-200, ZV-210. J. EVANS:
J2, J4. TACO: 555, 556, 557, 571. DOLE: HM2.

USE DAYTON NOS. 2E290 OR 2E291

RELAYS & ACCESSORIES

SWITCHING RELAY, SPST

HONEYWELL: R15-5 (AC), R19A, R19-1, RA19A, RA89A, R182A
W-RODGERS: 809A-3 (115V), 8A02A. GENERAL: RS100B
RS107A, 5000D, J; 5010D8, 10, 5010J8, 10; RS107A; R4A021D

USE DAYTON NO. 2E143

SWITCHING RELAY, DPST

HONEYWELL: R845A, RA832A, R847 (16 amp). W-RODGERS:
829A-1 (115V), 8A03A-1. GENERAL: 5010D11, 5010J11. PENN:
791BE01LV, 792BE01LV.

USE DAYTON NO. 2E144

FAN RELAY CENTER

HONEYWELL: R8226A, B; R856. W-RODGERS: 8A05A-1,
G.E.: 3AAP3.

USE DAYTON NO. 2E342

FAN RELAY

HONEYWELL: R8225B. WHITE-RODGERS: 8A04-1. GEN-
ERAL: R4.

USE DAYTON NO. 2E461

ELECTRIC HEAT RELAY

HONEYWELL: R841C. W-RODGERS: 24A01G-3. PENN: 705.

USE DAYTON NO. 2E346

ELEMENT SEQUENCER

HONEYWELL: R8206A. W-RODGERS: 24A-11-4.

USE DAYTON NO. 2E377

ELEC. HEAT FAN RELAY

HONEYWELL: R8206C. W-RODGERS: 24A20-4.

USE DAYTON NO. 2E378

THERMOSTAT GUARD

HONEYWELL: 133722. W-RODGERS: 29-0143. GENERAL:
AC89E.

USE DAYTON NO. 2E370

LARGE CONTROL STOCKS MAINTAINED

Grainger's keeps an extensive inventory of automatic controls at all Sales Office/Warehouses for pick-up or immediate shipment. The Dayton controls stocked will serve most of your needs for heating, ventilating and air conditioning applications. For more information write for Bulletin 808 or ask your Grainger salesman.

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

Information on most major items in Grainger's MotorBook is available for the asking. Let our sales or counter people know what you need,

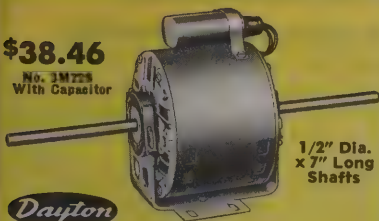
or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.

AIR CONDITIONER DOUBLE SHAFT BLOWER MOTORS

1/6 to 1/2 HP, 115 and 230V, 60 Hz. Perm. Split Capacitor NEMA 48YZ Frame. Thermal Protection

\$38.46

No. 3M225
With Capacitor



1/2" Dia.
x 7" Long
Shafts

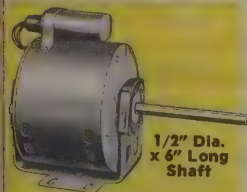
Widely used for new and replacement needs on most standard air conditioning blowers, exhausters, and similar air-over-motor fan applications. Permanent split capacitor type. NEMA YZ frame. Open construction. Resilient mount for quiet operation. All-position sleeve bearings. Double shafts easily cut to size if necessary. 3" shaft height. Automatic reset thermal protection. 50°C rise, Class A insulation, continuous duty. Clockwise rotation facing shaft opposite end with wire leads. Capacitor included. Adjustable venturi mount, length adapter, 3-ring bracket, lug ring adapter and other accessories are available to facilitate mounting motors on all new applications. See Index under Motor Parts & Accessories. Also widely used in the field for replacement jobs. Gray finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Resilient Base Mounting Holes OC	Shaft† Dia. Long	Overall Height (**)	Length Less Shaft	Full- Load Length Amps	Stock No.	With Capacitor Each	Shpg. Wt.
1/6	1100/2-Speed	115	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 9/16"	18 9/16"	3.0	3M016	\$38.66
	1100/3-Speed	115	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 9/16"	18 9/16"	3.0	3M375	39.15
	1100/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 9/16"	18 9/16"	1.5	3M017	38.75
	1100/3-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 9/16"	18 9/16"	1.5	3M376	39.47
	1550/2-Speed	115	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 13/16"	18 13/16"	2.7	3M228	38.46
	1550/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 13/16"	18 13/16"	1.3	3M229	38.98
1/4	1100/2-Speed	115	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 5/16"	19 5/16"	4.4	3M008	39.28
	1100/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 5/16"	19 5/16"	2.2	3M009	39.50
	1550/2-Speed	115	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 13/16"	18 13/16"	3.6	3M064	39.25
	1550/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	4 13/16"	18 13/16"	1.8	3M065	40.13
1/3	1100/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 9/16"	19 9/16"	2.5	3M048	43.36
	1100/3-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 9/16"	19 9/16"	2.5	3M378	44.07
	1550/3-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 9/16"	19 9/16"	1.9	3M377	42.04
1/2	1100/2-Speed	230	1 11/16 x 4 3/4"	1 1/2" 7"	7 1/8"	5 13/16"	19 13/16"	3.3	3M178	47.04

†) 6 3/4" flat. (**) Body dia. 5 5/8".

AIR CONDITIONER CONDENSER FAN MOTORS

1/4 to 1/2 HP, 230V, 60 Hz. Perm. Split Capacitor. NEMA 48Z, 48YZ & 56Z Frames. Thermal Protection



1/2" Dia.
x 6" Long
Shaft

Dayton

\$36.24

1/4 HP, 1100 RPM
With Capacitor

Designed to fill needs of air conditioner manufacturers and growing replacement need for air conditioner condenser fan motors. Horsepower range provides interchangeability with most condenser fan motors in current use. 1/4 to 1/2 HP, permanent split capacitor, in NEMA 48Z, 48YZ and 56Z frames. Open construction. Resilient mount for quiet operation. All-position sleeve bearings, except No. 3M295 has ball bearings. 3" shaft height. Automatic reset thermal protection. 50°C rise, Class A insulation, continuous duty. Wired for clockwise rotation facing shaft. Rotation easily reversed: two reversing leads with spade terminals are interchanged in quick-disconnect block on motor shell. Enclosed die-cast endshield on shaft end. Water slinger on shaft. Capacitor included. Gray finish. Recognized by UL under the Motor Component Recognition Program. Dayton brand.

HP	RPM	Volts 60 Hz	Bearings	Resilient Base Mounting Holes OC	Shaft† Dia. Long	Overall Height (†)	Length Less Shaft	Full- Load Length Amps	Stock No.	With Capacitor Each	Shpg. Wt.
1/4	850	230	Sleeve	2 3/4 x 4 1/4"	1 1/2" 6"	7 1/8"	7 5/16"	13 3/16"	2.1	3M294	\$49.33
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2" 6"	7 1/8"	5 9/16"	11 9/16"	2.2	3M226	36.24
1/3	850	230	Sleeve	2 3/4 x 4 1/4"	1 1/2" 6"	7 1/8"	7 5/16"	13 3/16"	2.7	3M224	52.66
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2" 6"	7 1/8"	5 9/16"	11 9/16"	2.5	3M217	38.50
	1550	230	Sleeve	1 11/16 x 4 3/4"	1 1/2" 6"	7 1/8"	5 9/16"	11 9/16"	1.7	3M265	38.09
1/2	850	230	Ball	3 x 4 7/8"	1 1/2" 6"	8 1/4"	7 3/8"	13 3/8"	3.2	3M295*	64.09
	1100	230	Sleeve	1 11/16 x 4 3/4"	1 1/2" 6"	7 1/8"	5 13/16"	11 13/16"	3.3	3M221	42.91

†) NEMA 56Z frame. 3 1/2" shaft height. (†) 5 1/4" flat.

*) Body dia. 5 5/8" except No. 3M295 is 6 5/8".

All motors on this page recognized by UL under the Motor Component Recognition Program

Quantity Motor Prices for OEM Production — Available from Grainger

Quantity prices are available to original equipment manufacturers from Grainger on most of the 1,297 electric motor types listed in this MotorBook. Most standard

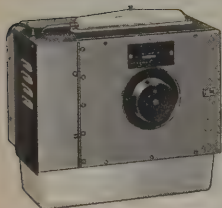
motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

SEE WARRANTY INFORMATION ON PAGE 684

AutoFlo FURNACE-MOUNT HUMIDIFIERS

EVAPORATIVE CAPACITIES RATED PER ARI STANDARD No. 610-70

PUMP-TYPE POWER HUMIDIFIER



18 Gal./Day Cap. Stainless Steel Construction. Auto-Flo Model 40

\$84.34 Supplies humidity for large or small homes. Will evaporate 18 gal./day at 140°F. plenum temperature. Operates automatically with the furnace blower to add moisture to circulated warm air in room. Quiet propeller fan and recirculator pump go to work as soon as furnace blower goes on—pulling hot dry air through vapor pad, and sending moist air through heat ducts. Stainless steel interior and cabinet. Airtight construction. Plastic water reservoir. Automatic water leveler eliminates drain connection problems. Easily flush mounted in hot air duct or plenum. Saddle valve, hardware and instructions included. Requires humidistat; see Index under Humidistat. 115V, 60 Hz. 16½" W x 14" H x 7½" D. Shpg. wt. 18 lbs.

No. 2E181. Humidifier. Retail \$168.68. Each **\$84.34**

DRAIN-TYPE POWER HUMIDIFIER FOR EXTREMELY HARD WATER AREAS

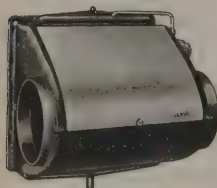
Same as above No. 2E181 Auto-Flo Humidifier except that it has a continuous drain valve (instead of a recirculating pump) to flush away mineral deposit. A special water-saver flow control orifice holds water usage to a minimum

for effective evaporation. Excess water is carried down drain. Has ½" OD drain outlet. Shpg. wt. 16 lbs. Requires humidistat; see Index under Humidistat. Auto-Flo Model 40S.

No. 2E184. Retail \$168.68. Each **\$84.32**

DRAIN-TYPE BY-PASS HUMIDIFIER

15.8 Gal./Day Cap. Left or Right-hand Take-off. Auto-Flo Model 250

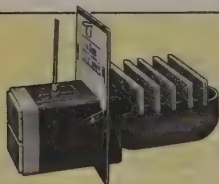


\$49.62 High capacity by-pass humidifier designed for hard water areas. Water runs through entire evaporator pad into drain tube, flushing away mineral deposits for longer pad life. Can be installed on warm or cold air plenum of upflow, downflow, or horizontal furnace. Right or left by-pass take-off for 6" dia. duct. Operates on air pressure differential; no fan, pump or float, just simple 24V "water saver" solenoid valve. Evaporates 15.8 gal./day at 140°F. plenum temperature. High-impact plastic case is easy to clean, won't corrode. Removable stainless steel access panel for easy servicing. Requires humidistat; see Index under Humidistat. Comes with 120 to 24VAC transformer, 10 ft. polyethylene water line, saddle valve, 24" length of 6" dia. flexible aluminum by-pass duct, all necessary mounting hardware and instructions. ½" OD drain outlet. 11½" H x 13½" W x 11" D. Shpg. wt. 8 lbs.

No. 2E390. Humidifier. Retail \$99.23. Each **\$49.62**

PLATE-TYPE HUMIDIFIER

5 Glass-Fibre Plates. No Moving Parts. Auto-Flo Model 150



\$13.23 No moving parts to adjust, stick or wear out. Orifice easily adjusted for water pressures. Not for gravity-type furnaces. Corrosion proof, high-temperature plastic construction. Comes with 5 glass fiber plates, saddle valve, 5-ft. plastic water tubing; installation hardware. 10" H x 9" W x 16" D. 8¼" projection into furnace plenum. Shpg. wt. 3½ lbs.

No. 1E765. Humidifier. Retail \$26.46. Each **\$13.23**

QUICK REFERENCE TO HUMIDIFIER SPECIFICATIONS & MOUNTING REQUIREMENTS

Evaporative Capacity Gal./Day (*)	Type	Con- tinuous Drain	Auto-Flo Model	Stock No.	Overall Incl. Flange	Plenum Cut-Out Required	By-Pass Duct Dia.	Plenum Clearance Required (†) Inside Outside
29	By-Pass	No	97	2E384	11½" H 13½" W 12½" D	7½" H 8½" W	6"	None 22"
23.5	Media Wheel	No	240D	2E271	8" H 13½" W 14" D (**)	12" H 11½" W (\$)	5"	None 15"
18	Fan Powered	No	40	2E181	14" H 16½" W 7½" D	9½" H 12½" W	—	None 21"
18	Fan Powered	Yes	40S	2E184	14" H 16½" W 7½" D	9½" H 12½" W	—	None 21"
15.8	By-Pass	Yes	250	2E390	11½" H 13½" W 11" D	8½" H 8½" W	6"	None 11"
15.5	By-Pass	No	200P	2E463	11" H 16" W 9" D	8" Dia. (†)	5"	None 15"
6	Media Wheel	No	450	2E284	10½" H 12½" W 10½" D	8½" H 11" W	—	7" 9"
(#)	Evap. Plate	No	150	1E765	10" H 9" W 16" D	8¼" H 7" W	—	8¼" 14¼"

(*) At 140°F. plenum temperature per ARI standard No. 610-70; figures given are for clean units with new evaporator elements.

(†) Inside: from plenum or duct surface to nearest obstruction inside. Outside: from plenum or duct surface to nearest obstruction outside (minimum distance for easy installation and service). (**) Dimensions given are height, width & length. (\$) Length and width of cut in underside of duct. (†) 8" dia. half-circle. (#) ARI rating not available; capacity depends on plenum temperature, air flow CFM & number of plates used.

HUMIDIFIER ACCESSORIES & REPLACEMENT PADS LISTED ON NEARBY PAGE

AutoFlo FURNACE-MOUNT HUMIDIFIERS

EVAPORATIVE CAPACITIES RATED PER ARI STANDARD No. 610-70

MEDIA-WHEEL BY-PASS HUMIDIFIER

24V Motor-Driven Wheel. 29 Gal./Day Cap. Auto-Flo Model 97

\$74.42

Quiet, media wheel by-pass type humidifier features high capacity for homes up to 4000 sq. ft., long-life construction, ease of installation and service. Installs on cold air plenum with by-pass duct take-off from left or right. Rotating-drum media pad is driven by quiet, lifetime lubricated synchronous motor. Exclusive Convair-Cone provides maximum air flow through evaporator pad, gives up to $\frac{1}{3}$ more evaporative capacity than other comparable units. Case is of corrosion-resistant ABS plastic construction, water reservoir is high impact plastic for long-life and easy cleaning. Copper valve float. Stainless steel snap-off cover with see-through window simplifies cleaning and media pad replacement. Supplied with 2 feet of flexible by-pass duct, air by-pass shut-off damper, elbow and collar assembly, self-tapping saddle valve for copper pipe (pre-drill for iron pipe), knockout for overflow drain, 10 ft. plastic water line tubing with fittings and media pad. For 24V, 60 Hz only; 115V to 24V transformer furnished. Humidistat required; see Index under Humidistat. $11\frac{1}{2}$ H x $15\frac{1}{2}$ W x $12\frac{1}{2}$ " D. Shpg. wt. 11 lbs.

No. 2E384. Humidifier. Retail \$148.84. Each.....**\$74.42**

MEDIA-WHEEL BY-PASS HUMIDIFIER

24V Motor-Driven Wheel. 15.5 Gal./Day Cap. Auto-Flo Model 200-P

\$49.73

Medium capacity by-pass humidifier serves homes up to 1500 sq. ft. Installs on warm air plenum, with either left or right hand take-off. Urethane foam media wheel is driven by quiet 24V motor. Media wheel design offers maximum surface area for efficient evaporation. Media wheel is easily accessible through large removable panel for cleaning or replacement. Stainless steel case is corrosion resistant, easy to clean. Water float valve is polyethylene. Water reservoir is constructed of molded high-temperature plastic, removable for cleaning. Comes with 115/24V transformer, saddle valve and installation hardware. Transformer wired for control by furnace fan switch. Humidistat required; see Index under Humidistat. 11 H x 16 W x 9" D. Shpg. wt. 10 lbs.

No. 2E463. Humidifier. Retail \$99.45. Each.....**\$49.73**

MEDIA-WHEEL DUCT HUMIDIFIER

23.5 Gal./Day Cap. Easy Installation. Auto-Flo Model 240D

\$57.88

Provides uniform humidity throughout entire home by single duct installation. Mineral-free water vapor supplied by evaporation. Operates automatically with furnace blower. Unit requires only occasional draining. Motor drives media wheel at 3RPM and exposes 160 sq. in. of the moisture-laden element to warm air passing thru duct. Can evaporate up to 1 gal./hr., if required, at 140°F temperature. Automatic float control valve maintains proper water level. See-thru, heat resisting plastic housing, 8 H x $13\frac{1}{2}$ W x 14" L, is mounted horizontally where clearance below duct of 15" is available. Comes with hardware, saddle valve and ample plastic water tubing. 115V, 60 Hz motor with 10" cord and 3-prong plug. Shpg. wt. 10 lbs.

No. 2E271. Humidifier. Retail \$115.76. Each.....**\$57.88**

AIR-DRIVEN MEDIA-WHEEL HUMIDIFIER

No Electrical Connections. 6 Gal./Day Cap. Auto-Flo Model 450

\$29.14

Efficient, economical humidifier installs quickly on vertical warm air plenum or duct and delivers sufficient capacity for smaller homes. Media wheel is silently rotated through reduction gears by a self-contained air turbine which is driven by the warm air flow in the furnace plenum. Urethane-foam media pad has large evaporative area and is easily replaced. Unit is constructed of high strength polymer plastic throughout for ease of cleaning. Water valve float is polyethylene. Blue and beige finish. Supplied with mounting hardware, 10 ft. plastic water line, saddle valve, and media pad. $10\frac{1}{2}$ H x $12\frac{1}{2}$ W x $3\frac{1}{2}$ " D to plenum surface (protrudes 7" into plenum). Shpg. wt. 6 lbs.

No. 2E284. Humidifier. Retail \$58.28. Each.....**\$29.14**

HUMIDIFIER ACCESSORIES & REPLACEMENT PADS LISTED ON NEARBY PAGE

SEE WARRANTY INFORMATION ON PAGE 684

HUMIDIFIER PADS and ACCESSORIES

REPLACEMENT EVAPORATIVE PADS FOR HUMIDIFIERS

Humidifier Stock No.	Pad Stock No.	Retail	Each	Shpg. Wt.
1E957, 2E095, 2E181, 2E184, & 2E390	1E959	\$9.08	\$4.54	1 lb.
2E154	2E155	10.73	5.37	2 lb.
2E234 & 2E083	2E084	7.06	2.49*	4 oz.
2E168 & 2E271	2E169	6.60	3.30	12 oz.
2E182	2E183	16.50	8.25	3 lb.
2E185	2E186	3.00	1.00*	8 oz.
2E283	2E286	9.80	4.89	4 oz.
2E284	2E285	4.95	2.48	3 oz.
2E384	2E385	8.80	4.40	4 oz.
2E339	2E386	8.91	4.50	3 oz.
2E463	2E464	8.25	4.13	1 oz.

(*) While stocks last.

DAYTON HUMIDIFIER PLATES

Universal-Type Fits: Auto-Flo, General, Homart, Lau (Viking), Skuttle, Wetwing



\$2.79

Pkg. 10,
Lots 6

Can be used in all plate-type humidifiers. Fused fiberglass construction assures higher moisture output. 10 plates packed

in mailable carton. Counter display of 6 cartons. Shpg. wt. 11 oz.

No. 2E136. Carton of 10 Plates. Retail \$4.35. Each \$3.01; lots 6 (in display carton) \$2.79

HUMIDIFIER SELECTION GUIDE

1) **Power Humidifiers**—Most efficient and highest capacity. For warm air plenum installation. Pump type for soft to medium-hard water; drain type for very hard water.

2) **By-Pass Humidifiers**—Economical, medium capacity. Suited for forced air system where installation on warm air plenum is restricted. Pump type is more compact and easily serviced. Media wheel type offers simplicity, quietness.

3) **Duct Humidifiers**—Efficient, medium capacity. Used where plenum installation is impractical. Installs in bottom of square duct.

4) **Plate Humidifiers**—For smaller homes. Greatest initial economy, lowest capacity. Has no moving parts, requires no electrical wiring.

TURNER 7-PC. PROPANE TORCH KIT

For heating or melting jobs. Includes two burner tips, chisel-point soldering tip, flame spreader, spark lighter, 14.1 oz. propane tank and metal chest. 10 1/2" W x 3 H x 6" D. UL listed. Turner brand (HT 99). Shpg. wt. 4 lbs.

No. 1Z896. Turner Propane Torch Kit. Retail \$19.44. Each \$13.40; lots 6 \$12.45



EXTRA TANK OF TURNER PROPANE

No. 1Z690. 2 lbs. Ret. \$2.52. Ea. \$1.58; lots 6 \$1.47

AUTO-FLO HUMIDISTAT

Mounts on Duct or Wall. 24 or 115VAC



\$7.88 Provides precise control of central power humidifiers. May be installed on wall in living area of home or mounted on return-air duct of the furnace system. Rugged, sensitive element; 10 to 60% relative humidity range. Use for line voltage (115VAC) or low voltage (24VAC) circuits. Simple to use—recommended settings for outside temperature ranges shown on face of control. Neutral beige finish blends with any decor. 5 1/4" H x 3 3/8" W x 2" D. All installation hardware included. Shpg. wt. 1 lb. Auto-Flo model 052000.

No. 2E453. Humidistat. Retail \$13.00. Each \$7.88

UNIVERSAL HUMIDISTAT



\$11.50 Provides positive, automatic independent control of humidity supplied by a power humidifier in furnace. Normally mounted on remote wall (24V), but is easily adapted

for mounting in return air duct (115V). Range—10 to 60% R.H. and positive on & off positions. 4 to 6% R.H. diff. Recommended setting printed on case. Easy-to-read dial. Honeywell humidity controller, module type H806A. Rugged nylon element. Handsome beige and gold color molded case, 4 1/4" H x 2 1/2" W x 1 1/2" D. 24 or 115V, 60 Hz, 4.4 amps. Instructions supplied. Shpg. wt. 11 oz.

No. 2E188. Retail \$15.30. Each \$11.50

DUCT-MOUNTED HUMIDISTAT

Completely Automatic. Easy to Install



\$11.90 Honeywell H49A humidifier control assures maximum efficiency of humidifiers in forced air systems. Holds desired level of humidity throughout home. Mounts in the return air duct—turns on humidifier when furnace blower is operating. Range 15 to 50% relative humidity.

4.4A, 115V, 60 Hz. Wt. 1 1/2 lb. UL listed.

No. 2E073. Retail \$20.59. Each \$11.90

LIME SCALE DISSOLVENT

For Humidifiers & Appliances Using Hard Water

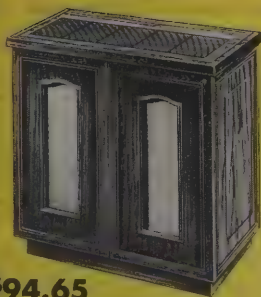


\$3.72 Dissolves and removes lime scale deposits in humidifiers, vaporizers, sterilizers, electric water heater elements, bottle warmers, aquariums, aerators, etc. A non-muriatic liquid acid product that works without the fumes, odors, and hazards associated with harsh chemicals. Packaged in 1/2 gal. plastic bottle. Must be used full strength—no mixing or diluting. Not for use on aluminum or galvanized metal. Shpg. wt. 5 lbs.

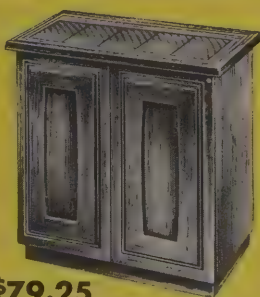
No. 2E237. Retail \$6.44. Each \$4.29; lots 6 \$3.72

ARVIN PORTABLE AUTOMATIC HUMIDIFIERS

Fine Furniture Styling. Most Advanced Features Available. For 115V, 60 Hz



\$94.65



\$79.25



\$61.67

11.5 GAL./DAY (*) Variable Speed Fan

11.5 GAL./DAY (*) Two-Speed Fan

10.5 GAL./DAY (*) Single Speed Fan

Top-line Arvin humidifier features solid state fan control which is continuously variable from a quiet 130 CFM up to 320 CFM. Has adjustable automatic humidistat. Fills from top. Concealed controls. Front mounted signal lamp glows and unit automatically shuts off when water reservoir is empty. Water level gauge provided. Walnut wood-like plastic panels on front and sides give fine cabinetry appearance. Concealed casters. UL listed. Replacement pads listed below. 26½" H x 28" W x 15½" D. Shpg. wt. 53 lbs. (50H52-01.)

No. 3H191. Arvin Humidifier. Retail \$139.14. Each.....**\$94.65**

Deluxe Arvin humidifier has 2-speed fan for extra-quiet 235 CFM or 320 CFM when maximum output is required. Has adjustable, automatic humidistat. Fills from top. Concealed controls. Front mounted signal lamp glows and unit automatically shuts off when water reservoir is empty. Water level gauge provided. Walnut wood-like plastic panels on front give fine cabinetry appearance. Walnut grain Arvinyl sides. Concealed casters. UL listed. Replacement pads listed below. 26½" H x 26" W x 15½" D. Wt. 50 lbs. (50H42-01.)

No. 3H192. Arvin Humidifier. Retail \$116.50. Each.....**\$79.25**

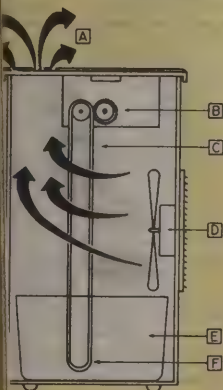
Economical Arvin humidifier combines latest innovations with contemporary furniture styling. Quiet 250 CFM fan. Has adjustable automatic humidistat. Top filling, top mounted controls. Front mounted signal lamp glows and unit automatically shuts off when water reservoir is empty. Water level gauge provided. Finished in attractive, wear-resistant, walnut grain Arvinyl. Concealed, easy-roll, non-marring casters. UL listed. Replacement pads listed below. 25½" H x 24" W x 14" D. Shpg. wt. 46 lbs. (50H32-01.)

No. 3H193. Arvin Humidifier. Retail \$90.65. Each.....**\$61.67**

Measured according to AHAM (Association of Home Appliance Manufacturers) CAPACITY STANDARD HU-1; based on 60% relative humidity at 75°F, a common condition in homes, stores, and offices. Verified by AHAM.

PLACEMENT FOAM PADS, No. 5H241. Replacement foam pads for above humidifiers Nos. 3H191, 3H192 and 3H193. Also for previously cataloged Arvin models 57H41 and 59H51 (Stock Nos. 576 and 4H848 respectively). Arvin brand (50H01). Retail \$3.22. Each.....**\$2.19**

ADVANCED FEATURES OF ABOVE ARVIN HUMIDIFIERS



(A) **NO-DRAFT TOP AIR DISCHARGE**—Humidified air is discharged through grill at top of unit. Prevents drafts and provides more efficient humidity control. Grill tilts back for filling.

(B) **SELF-CLEANING EVAPORATOR PAD**—Exclusive constant pressure roller with 596 "fingers" continuously kneads the pad, squeezing out minerals which tend to build up on the pad. Pad lasts longer and always operates at peak efficiency. Pad is warranted by Arvin for one year against seam failure or clogging due to mineral deposits. Pad is driven by quiet motor.

(C) **EFFICIENT WATER EVAPORATION**—Fan forces air through two thicknesses of the foam pad. This not only gives top evaporation efficiency but also cleans the air better.

(D) **QUIET, POWERFUL FAN**—10" dia., 6-blade fan is driven by big shaded pole motor for quiet, efficient air movement. Will not cause TV interference. Fan blade is rubber mounted to motor shaft for minimum vibration and noise.

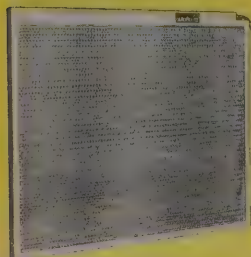
(E) **BIG TEN GALLON WATER RESERVOIR**—Non-corrosive, molded plastic water tank. Non-splash filling from top of unit. Tank removes easily for cleaning. Use of heavy-duty plastic in water-exposed parts minimizes maintenance. Water splash guard eliminates wet floors due to water dripping.

(F) **NO EXCESSIVE TENSION ON PAD**—Evaporator pad lasts longer because no bottom roller is used thus eliminating unwanted stress on pad.

autoFlo 1" THICK ELECTRONIC AIR CLEANERS

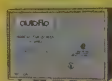
Replaces Existing 1" Thick Furnace Filter. Four Standard Filter Cell Sizes Available
Effectively Removes Air-borne Allergens and Fine Dust. Requires Little Maintenance

\$136.50 No. 4C519 Cell
& No. 4C513 Power Pack



FILTER CELL

**POWER
PACK**



Versatile Auto-Flo electronic air cleaners are designed for direct replacement of existing 1" thick fiberglass throw-away filters in forced air heating and/or cooling systems. These efficient units remove 75% of airborne particles down to 0.5 micron in size passing through the element, including dust, pollen, bacteria and mold spores. See micron chart below. Air cleaner system consists of a filter cell and remote power pack with electrical connecting cable. Filter cell sizes available for most applications. Compact filter cell also permits installation behind grill of a central cold air return. For systems using two filters, a Y cable (see below) is available to operate two filter cells from one power pack, however air flow must not be in series through the two cells.

Filter cells can be installed in up-flow, down-flow or horizontal-flow furnaces, on the cold air side only. Power pack mounts near filter cell using two screws. For highest efficiency at lowest pressure drop, select the largest filter cell that can be installed; see table below. Filter cell is easily cleaned every 2 to 3 months with detergent and warm water. Cell and power pack case constructed of heavy-gauge aluminum. Units require only 0.3A at 120V, 60 Hz. UL & CSA listed.

POWER PACK ONLY—ALSO ORDER PROPER FILTER CELL LISTED BELOW

POWER PACK for use with all Auto-Flo filter cells listed. Wire to operate with furnace blower. Mounts in any position. To insure safety at initial installation, and whenever filter cell is removed for cleaning, a timer in power pack prevents filter cell operation until system blower has run for 12 hours. $9\frac{1}{2}$ W x 6 D x $3\frac{1}{2}$ H. Shpg. wt. 5 lbs. (Mfrs. model 600.)

No. 4C513. Power Pack. Retail \$174.00. Each.....\$87.00

FILTER CELLS ONLY—ALSO ORDER POWER PACK LISTED ABOVE

Replaces Filter Size	Cell Dimensions H W Thick	Mfrs. Model	Static Pressure at CFM Shown	Stock No.	Retail	Each	Shpg. Wt.
16" x 20" x 1"	15 $\frac{1}{2}$ " 19 $\frac{1}{2}$ " $\frac{7}{8}$ "	6-2016	0.14" 0.23" * *	4C519	\$ 99.00	\$49.50	3 $\frac{1}{4}$
20 x 20 x 1	19 $\frac{1}{2}$ " 19 $\frac{1}{2}$ " $\frac{7}{8}$ "	6-2020	0.09 0.15 0.32" *	4C518	102.00	51.00	3 $\frac{3}{4}$
16 x 25 x 1	15 $\frac{1}{2}$ " 24 $\frac{1}{2}$ " $\frac{7}{8}$ "	6-2516	0.09 0.15 0.32 *	4C516	105.00	52.50	3 $\frac{3}{4}$
20 x 25 x 1	19 $\frac{1}{2}$ " 24 $\frac{1}{2}$ " $\frac{7}{8}$ "	6-2520	0.06 0.10 0.20 0.34"	4C515	111.00	55.50	4 $\frac{1}{2}$

(*) Do not use at this air flow; pressure drop too high for proper operation. (†) Inches water column.

Y ADAPTER CABLE for connecting any two Auto-Flo filter cells to one No. 4C513 powerpack. 40" long, with proper terminals attached. Shpg. wt. 8 oz.

No. 4C520. Y Adapter Cable. Retail \$45.00. Each.....\$22.50

PARTICLE SIZES OF AIR-BORNE CONTAMINANTS

Contaminant	Approximate Particle Size Range, in Microns(*)	Compatible Air Cleaner(†)	Contaminant	Approximate Particle Size Range, in Microns(*)	Compatible Air Cleaner(†)
Bacteria	0.3-30	A, B, C	Hair (Human)	30-100	A, B, C
Cooking Oil Smoke	0.03-1	B, C	Lint	10-100	A, B, C
Dust (Inside)	0.001-20	A, B, C	Plant Spores	10-30	A, B, C
Fly Ash	1-100	A, B, C	Pollen	10-100	A, B, C
Fumes	0.001-1	B, C	Tobacco Smoke	0.01-1	B, C
Ground Tale	0.5-50	A, B, C	Viruses	0.003-0.05	B, C

(*) One micron = 1/25,000 in.; e.g. 50 microns equal the size of a sharp pencil dot. (†) Electronic air cleaner which will remove most of the contaminant particle sizes specified. See individual air cleaner listings for efficiencies. A = Nos. 4C519, 4C518, 4C516 & 4C515 1" thick air cleaners. B = No. 5H127 portable air cleaner. C = Nos. 4C452 & 3C105 furnace mount air cleaners.

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

FURNACE-MOUNT ELECTRONIC AIR CLEANERS

Install in All Types of Forced Air Furnaces. Two Models Handle Most Installations
Multi-Stage Design Removes up to 90% of Dirt Passing Through The Unit. White-Rodgers Brand

See micron chart, facing page



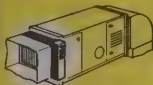
\$167.45

No. 4C452

**FITS ALL
FURNACES**



Up-Flow



Horizontal



Down-Flow

Complete electronic air cleaner packages for domestic and light commercial forced-air heating and/or cooling systems. Two models listed handle most central forced air furnace installations. Units have all of the important and desirable features. UL listed.

HIGH PERFORMANCE—Removes up to 90% of all particles down to 0.01 micron in size including pollen, smoke, dust, dirt, soot, and bacteria passing through the cleaner elements (determined by NBS Dust Spot Test Method). Keeps building cleaner, fresher, and reduces airborne irritants.

FITS ALL FURNACES—Units can be installed in any furnace which utilizes a blower for air circulation. Slim profile makes installation easy. For standard 16 x 20" or 20 x 25" ducts. Typical pressure drop is 0.03 W.C. @ 800 CFM and 0.19 W.C. @ 2000 CFM.

EASY TO MAINTAIN—Only simple, periodic cleaning is necessary for top performance. Red indicator lamp on front panel glows when unit is operating normally; lamp extinguishes when unit requires attention. Cleans easily with hot water and detergent.

PRE-FILTER—Stops lint, hair, etc., and prevents foreign objects from entering the cleaner.

RUGGED IONIZING/COLLECTING CELL—Tungsten ionizing wires are spring loaded for even tension and have porcelain separators. Cells are easily removed and replaced for quick, easy cleaning. No. 3C105 has 2-piece cell for easier handling. Large, 2½" deep plates provide one of the biggest collecting plate areas available in respective unit sizes. Cell withstands 100% relative humidity and 260°F air temperature.

PROTECTIVE AFTER-FILTER—Provides even air distribution through the cell.

ELECTRICAL INTERLOCK—When access door is opened, power supply automatically disconnects.

RUGGED CONSTRUCTION—Unit case is constructed from 18 ga. galvanized steel to resist rust and corrosion. Requires ½ amp at 115V, 60 Hz. Interlock blower and air cleaner electrically for simultaneous operation.

For Duct Size	CFM Range	High	Dimensions Wide	Deep	Stock No.	Retail	Each	Shpg. Wt.
16X20"	800-1400	19½"	6¾"	25¾"	4C452	\$287.70	\$167.45	44
20X25	800-2000	25	6¾"	29¼"	3C105	311.64	185.25	58

AIR SWITCH FOR ELECTRONIC AIR CLEANERS—turns above air cleaners on and off by sensing positive air pressure in duct. Easier to install than a sail switch; no cutting of duct required, just drill hole. SPDT switch action. Wide adjustment range.

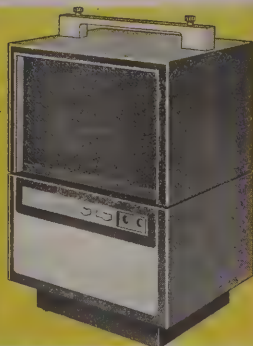
No. 2E462. Air Switch. Retail \$37.50. Each.....**\$18.75**

AutoFlo PORTABLE ELECTRONIC AIR CLEANER

Operates on Same Electrostatic Cleaning Principle as Expensive Furnace Units
Removes Sub-Micron Particles, Smoke, Odor, Dust and Lint from Room Air. Safe, Quiet

Efficient electronic air cleaner provides healthier environment in homes, offices, etc. **\$110.91**
4-stage filtration removes up to 99% of airborne particles. Utilizes two-stage electrostatic precipitator to filter out particles down to 0.03 microns (about 1/800,000 inch)—particles air conditioners and other mechanical filters cannot remove. See micron chart, facing page. A replaceable activated charcoal filter removes smoke and odors, and an inlet lint screen traps larger particles of dust and lint. Cleans the air four to six times per hour in a closed 15 x 15 ft. room. Completely portable; weighs only 23 lbs. Convenient carrying handle. Solid state circuitry uses less power than an average light bulb. Requires little maintenance. Easily cleaned lint screen. Cell removes easily for cleaning with soap and water; can be washed in automatic dishwasher. Signal light indicates dirty cell, pilot lamp indicates when unit is on. Safety interlock disconnects power when cell is removed for cleaning. Quiet 2-speed fan circulates room air through cleaner. 120V, 60 Hz, 50 Watts. 20½H x 13W x 10½"D. Attractive slate gray satin finish with brushed aluminum trim blends with any decor. 6 ft. 3-wire cord set. UL listed. Shpg. wt. 24 lbs. (Auto-Flo model 777.)

No. 5H127. Portable Air Cleaner. Retail \$171.91. Each.....**\$110.91**



HIGH-CAPACITY DAYTON DEHUMIDIFIER

32 Pints/Day Capacity for High Humidity Applications. Hermetic Compressor
Direct-Drain Type; Add-On Accessory Base Gives 30 Pt. Collector Capacity. 225 CFM Fan



32 Pints/Day Capacity

\$162.23

BASIC UNIT
Less Collector Base



\$17.70

**ADD-ON
COLLECTOR
BASE**

Basic Dehumidifier

Designed specifically for residential, commercial and industrial use—where humidity conditions are extreme. Removes 32 pints of moisture from the air in a 24-hour period. Built-in humidistat with top-mounted control dial turns dehumidifier on and off and automatically maintains the selected dryness level. Compact cabinet is heavy gauge steel finished in light beige baked enamel with removable front grille finished in cordovan. A threaded hose connector accepts a standard garden hose for direct drain of condensate. For 30 pt. collector-capacity, order No. 5H047, 30 pt. Add-On Collector Base listed below. Collector base can be added to basic dehumidifier at any time.

Features dependable 1/3 HP hermetic compressor, hermetically sealed for long life. R-12 refrigerant. Quiet, 10", 3-blade fan delivers 225 CFM across 2-row 3/8" OD aluminum tube evaporator coil. Air flow through unit is from back to front. Unit is 15 1/4" H x 14 1/2" W x 19 1/2" D. Rolls on four heavy-duty, non-marring casters. 115V, 60 Hz, 7.0 Amps, 600 Watts. 12-ft. power cord. UL listed. Shpg. wt. 56 lbs.

No. 5H046. High-Capacity Dayton Dehumidifier. Retail \$202.71. Each\$162.23

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.

Capacity measured according to ANSI standard B149.1; based on 60% relative humidity at 80°F, a common condition in homes, stores and offices. Verified by AHAM.

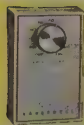
Add-On Collector Base

Adds 30 pt. water collector capacity to No. 5H046 Dehumidifier for those areas where direct drain of condensate is not possible. Install at any time. Finished in matching light beige baked enamel. Heavy duty casters, included with No. 5H046 Dehumidifier, install on the base assembly when it is used. Base has four slip pins which fit snugly into bottom of dehumidifier for secure fit. 9 1/4" H x 14 1/2" W x 19 1/2" D. Overall dehumidifier height with base attached is 25". Shpg. wt. 15 lbs.

No. 5H047. Base. Retail \$22.13. Each\$17.70

DEHUMIDIFIER CONTROL

Maintains Room Humidity at Pre-Set Level



\$21.16 Provides continuous, automatic control of domestic dehumidifier

to maintain selected humidity level. Ranges: 20-80%. 4 to 6% diff. R.H. External control. Nylon element. Snap action Micro switch rated 7.5 full-load amps. 115V. Plug-in type. 6 ft. cord with two-prong plug adapter. Saves power.

4 1/4" H, 2 5/8" W, 1 1/2" D. Silver bronze finish with beige face. Honeywell brand. Wt. 1 lb.

No. 2E082. Dehumidifier Control (H46E1013). Retail \$42.31. Each\$21.16

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated, to railroad or trucking terminals within the United States (except Hawaii and Alaska), using routing of our choice. Any charges for delivery from terminal must be paid by consignee.

AHAM* DEHUMIDIFICATION GUIDE

Determines Proper Dehumidifier Capacity

Table below gives required dehumidification, in pints per 24 hours, based on area of the space to be dehumidified and conditions that would exist in that space without a dehumidifier. Other variables to be considered include climate, laundry equipment, number of people, doors & windows, degree and intensity of area activity, etc.

REQUIRED DEHUMIDIFICATION, PINTS/DAY

CONDITION WITHOUT DEHUMIDIFICATION(†)	AREA IN SQUARE FEET			
	500	1000	1500	2000
Moderately damp —Space feels damp and has musty odor only in humid weather.	10	14	18	22
Very damp —Space always feels damp and has musty odor. Damp spots show on walls or floor.	12	17	22	27
Wet —Space feels and smells wet. Walls or floor sweat, or seepage is present.	14	20	26	32

(*)Association of Home Appliance Manufacturers. (†)During warm and humid outdoor conditions.

DEPENDABLE, QUIET DAYTON DEHUMIDIFIERS

Hermetic Compressors, Ranco Humidistat Controls. 167 CFM Fan. 115V, 60 Hz

Provides low-cost protection from rust, moisture and mildew for furnishings, hobby equipment, tools, clothing, etc.; makes additional space available for storage or living by minimizing odors and removing excess humidity.

Adjustable Ranco humidistat control operates unit as necessary. Dependable compressor is hermetically sealed in steel. Separate compressor relay control for dependability. Quiet, 8 $\frac{3}{4}$ ", 167 CFM circulating fan. Units may be drained, (1) into 6 qt. collector bucket provided, (2) through user's garden hose, (3) or into floor drain directly below unit.

Overflow control on both models turns unit off and signal light on when collector bucket is full. Both models have 22 ga. walnut-grain vinyl covered steel cabinets and matching wood-grain finish grille. Units are 12 $\frac{5}{8}$ " W, 17" H, 19 $\frac{1}{2}$ " D, roll easily on 1 $\frac{1}{4}$ " non-marring Bassick casters. 6 ft. cord set. 115V, 60 Hz. UL listed.

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.

Capacity ratings per ANSI standard B149.1; based on conditions of 80°F, 60% relative humidity—conditions likely in average home.

21.5 Pints/Day

\$141.55

With Overflow Control

16 Pints/Day

\$125.95

With Overflow Control



Dayton

Capacity	Overflow Control	Evaporator Coil Dia.	Long	Fan CFM	115V Amps	Stock No.	Retail	Each	Shpg. Wt.
21.5 pints/day	Yes	3/8"	30 ft.	167	5.7	5H045	\$176.94	\$141.55	55
16.0 pints/day	Yes	5/16"	24 $\frac{1}{2}$ ft.	167	4.5	5H043	157.44	125.95	54

WHITE-WESTINGHOUSE DEHUMIDIFIERS

14 to 30 Pint Capacities. For Home and Commercial Use. Humidistat Control

Thin-Line Cabinets with Walnut Wood-Grain Finish. Automatic Overflow Controls. 115V

\$111.23

No. 5H421



No. 5H421

Nos. 4H801, 4H802, 5H422

Beautifully styled, high-capacity White-Westinghouse dehumidifiers for home and commercial use eliminate moisture-caused rust, mildew, warping, humidity discomfort, and damage to finished surfaces; give new useability to damp or musty problem areas. Higher capacity model 5H422 is suited for commercial applications or large extra-damp rooms. Humidity control is assured by accurate humidistat that maintains selected humidity level automatically.

Slim-silhouette cabinet with furniture-like appearance rides anywhere on non-marring concealed wheels; constructed of rust-resistant steel finished in walnut vinyl laminate. High-impact plastic grille is moisture-impervious and matches any decor. Slanted control panel for easier viewing. Whisper-quiet fan and compressor are permanently lubricated.

Internal air-drying coils are exposed for easy cleaning and top cooling efficiency. Water drains into durable, 10-qt. collector bucket, or may be drained off by connecting garden hose to standard $\frac{3}{4}$ " threaded nozzle at rear of unit. Automatic overflow control shuts off unit when bucket is full. 115VAC, 60 Hz. 8 $\frac{1}{2}$ " ft., 3-wire, grounded cord set. 20 $\frac{1}{2}$ " H x 11 $\frac{1}{8}$ " W x 11 $\frac{1}{2}$ " D. UL listed.

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.

Capacity(*)	Mfr. Model	Overflow Control	115V Amps	Fan CFM	Stock No.	Retail	Each	Shpg. Wt.
4 pints/day	ED144S	Yes	3.4	180	5H421	\$144.60	\$111.23	44
3 pints/day	ED207S	Yes	5.0	175	4H801	157.86	121.43	46
3 pints/day	ED257S	Yes	5.8	250	4H802	177.10	136.23	49
3 pints/day	ED307S	Yes	7.0	260	5H422	196.76	151.35	52

*) Measured according to ANSI standard B149.1; based on 60% relative humidity at 80°F, a common condition in homes, stores and offices.

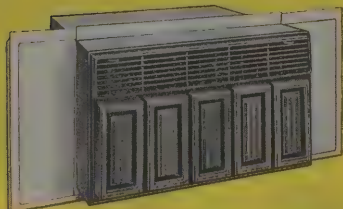
10,000 to 27,000 BtuH AIR CONDITIONERS

AHAM Verified Ratings. Compact Design. Easy Installation

115 & 230/208V MODELS

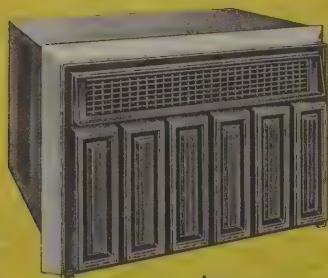


White-Westinghouse



10,000 to 15,000 BtuH

\$294.79
10,000 BtuH



18,000 to 27,000 BtuH

\$383.52
18,000 BtuH

- Energy-saver switch on 10,000, 12,000 and 15,000 BtuH units
- Built-in thermostat on all models for precise temperature control
- All models furnished with installation kit and permanent, framed polyurethane filter
- Cabinets are galvanized & bonderized steel and painted for maximum corrosion protection
- Extra large dehumidification capacity
- Fine furniture styling, all models

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.

10,000 to 15,000 BtuH UNITS FOR WINDOW MOUNTING

Deluxe units with extra cooling capacity for large rooms. Fit window openings 26 $\frac{1}{4}$ " to 40" W. Special energy-saver switch allows fan motor to stop when compressor cycles off. Power saving range scale on temperature dial reminds user to keep thermostat at an energy saving setting. High, medium and low cool selection, 3-speed fan. Adjustable air deflectors, 11-position thermostat. Vent control exhausts air or circulates room air. Cabinet is double-coated galvanized steel. High-impact styrene grill finished in walnut wood grain. Mylar panels are beige finish.

18,000 to 27,000 BtuH UNITS FOR WINDOW OR WALL MOUNTING

These units feature big capacity for tough air conditioning jobs in stores, offices etc. Fits windows 28 $\frac{3}{4}$ " to 48" wide or can be mounted thru-the-wall. Selection of high, medium and low cool, 3-speed fan. Adjustable air deflectors, 11-position thermostat. Vent control exhausts air or circulates room air. High-performance dehumidification. Special mounting sleeve installs in window or wall, unit then slides into sleeve. Styling blends with most any decor. High impact styrene grille finished in attractive walnut woodgrain.

AIR CONDITIONER DIMENSIONS

Stock No.	H	Dimensions W D	Shpg. Wt.
3H249	14 $\frac{1}{16}$ "	24 $\frac{1}{16}$ " 23 $\frac{5}{8}$ "	138
3H250	14 $\frac{1}{16}$ "	24 $\frac{1}{16}$ " 23 $\frac{5}{8}$ "	143
3H251	14 $\frac{1}{16}$ "	24 $\frac{1}{16}$ " 23 $\frac{5}{8}$ "	152
3H226	18 $\frac{1}{8}$ "	26 $\frac{3}{4}$ " 30 $\frac{3}{4}$ "	205
3H228	18 $\frac{1}{8}$ "	26 $\frac{3}{4}$ " 30 $\frac{3}{4}$ "	232
3H229	18 $\frac{1}{8}$ "	26 $\frac{3}{4}$ " 30 $\frac{3}{4}$ "	241

BtuH	Volts, 60 Hz	Mfr. Model	Run Amps	Dehumid. Pts./Hr.	EER (†)	Fan CFM High	Air Defl.	Stock No.	Retail	Each
10,000	115	AH107W1D	12.0	3.2	7.3	270	2-Way	3H249	\$383.23	\$294.79
12,000(*)	230/208	AH127W2D	9.0(*)	3.8	6.2/6.0	350	2-Way	3H250	411.58	316.60
15,000(*)	230/208	AH157W2D	12.4(*)	4.6	5.6/5.5	360	2-Way	3H251	446.69	343.61
18,000(*)	230/208	AS187W2K	12.7(*)	5.6	6.5/6.3	600	4-Way	3H226	498.58	383.52
24,000(*)	230/208	AS247W2K	16.3(*)	8.0	6.8/6.5	580	4-Way	3H228	613.87	472.21
27,000(*)	230/208	AS277W2K	18.0(*)	9.0	6.9/6.7	600	4-Way	3H229	659.61	507.39

(*) At 230V; on 208V BtuH will be approx. 6% lower, run amps 6% higher. (†) Energy efficiency ratio.

RECEPTACLE/PLUG CONFIGURATIONS

For 230/208V Units Listed Above



3H250
3H251
3H228
3H229



3H226

Use Fast Grainger Supply Service — Large Stocks Maintained Near You
You Are Served by Experienced Men and Women Who Know Your Needs

5000 to 10,000 BtuH AIR CONDITIONERS

AHAM Verified Ratings. Compact Design. Easy Window Installation

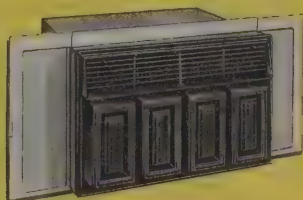
White-Westinghouse



FOR 115 VOLT, 60 Hz POWER

- Energy-saver switch on all units
- Built-in thermostat on all models for precise temperature control
- All models are furnished with installation kit and permanent, framed polyurethane filter
- Cabinets are aluminum or galvanized & bonderized steel and painted for maximum corrosion protection
- Fine furniture styling, all models

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.



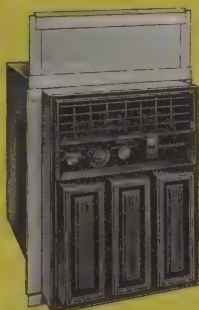
5000 & 8000 BtuH **\$194.43**
5000 BtuH

5000 & 8000 BtuH WINDOW UNITS

Custom compact models fit windows 24½ to 38" wide. Both have expandable Mylar side panels. High, medium and low cool selection, three fan speeds. Special energy-saver switch allows fan motor to stop when compressor cycles off. Power saving range scale on temperature dial reminds user to keep thermostat at an energy saving setting. Adjustable air deflectors, 11-position thermostat. Vent control exhausts or circulates room air. Side panels finished in beige, high-impact styrene grille has walnut woodgrain. 5-ft. power cord.

10,000 BtuH SLIDER/CASEMENT UNIT

Designed for use in horizontal sliding or casement type windows, 15¾" minimum W & 36" maximum H. Also adaptable to thru-the-wall installation between 16" OC studs. High and low cool selection, high and low fan speeds. Adjustable air deflectors, 11-position thermostat. Vent control exhausts or circulates room air. Mounting kit has translucent mylar panel and PVC expanding frame which offer weathertight seal. High impact styrene grille has walnut woodgrain. 6-ft. power cord.



10,000 BtuH
SLIDER/
CASEMENT
TYPE
\$305.73

BtuH @115V	Mfr's. Model	Run Amps @ 115V	De-hum. Pts./Hr.	EER (*)	Fan CFM (High)	Air Deflector	H	Dimensions W	D	Stock No.	Retail	Each	Shpg. Wt.
5000	AC057T7D	7.5	1.6	6.1	185	2-Way	12 1/16"	19 1/4"	17 1/4"	5H442	\$252.76	\$194.43	74
8000	AC087W1D	11.8	2.5	6.2	220	2-Way	12 1/16"	19 1/4"	17 1/4"	5H444	306.55	235.81	89
10,000	AK105W1V	11.9	3.2	7.3	280	4-Way	19 1/4"	14 1/4"	23 7/8"	3H222	397.45	305.73	122

(*) Energy efficiency ratio.

AIR CONDITIONER EXTENSION CORDS

\$2.21 125V, 15A & 250V, 20A For Indoor Use

6 Ft. 14/3 Lots 4

15 Amp Plug 20 Amp Plug

15 AMP, 125V CORDS

Length	Gauge	Max. Amps	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
6 ft.	14/3	15	2W165	\$3.03	\$2.42	\$2.21	11 oz.
9 ft.	14/3	15	2W166	3.68	2.94	2.69	13 oz.
12 ft.	14/3	15	2W167	4.49	3.59	3.26	1 1/4

20 AMP, 250V CORDS

Length	Gauge	Max. Amps	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
9 ft.	12/3	20	2W168	\$6.20	\$4.96	\$4.55	1 1/4
12 ft.	12/3	20	2W169	7.75	6.20	5.84	1 3/4

COMPLETE LINE OF STEEL SHELVING & SHOP EQUIPMENT AVAILABLE THROUGH YOUR LOCAL GRAINGER SALES OFFICE/WAREHOUSE

Grainger carries in stock steel shelving, service carts, tool stands, work benches and other shop equipment most often asked for. In addition, we can supply your needs for any other item in our comprehensive line of material handling equipment—tell us your requirements.

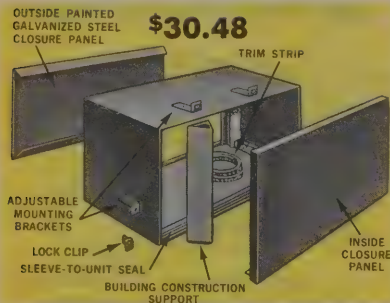
SEE WARRANTY INFORMATION ON PAGE 684

551

ACCESSORIES for HEATING & COOLING UNITS

For Nos. 3H247 and 3H248 White-Westinghouse Room Heating & Cooling Units on Facing Page

THRU-THE-WALL SLEEVE

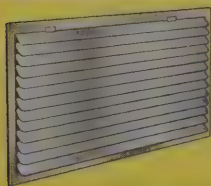


\$30.48

Simplifies thru-the-wall installation of heating & cooling unit in homes, apartments, motels, offices, etc. Provides weather-tight seal, with or without unit installed. Use in new or existing construction—heat & cool unit can be installed immediately or at a later date. For finished walls up to 2 1/4". Includes outside panel, sleeve, inside panel, fiberglass sound deadening insulating panel, construction support, weather seals and all necessary mounting hardware. For louvered outdoor grille see listing below. Made of galvanized steel with epoxy primer and melamine finish coat; withstands 1000 hr. salt spray test. Recommended wall opening when mounting brackets are used is 25 1/4" W x 15 5/8" H. Wall sleeve must be installed at a minimum of 3 1/2" above floor and at a minimum of 7 1/2" above top of a baseboard heater if used. White-Westinghouse model EA09T. Shpg. wt. 37 lbs.

No. 5H423. Retail \$39.62. Each.....**\$30.48**

OUTDOOR LOUVERED GRILLE



Use With
Thru-The-Wall
Sleeve
Listed Above

\$17.90

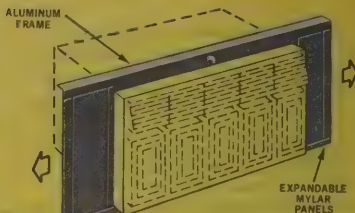
Corrosion-resistant, aluminum louvered grille for use with No. 5H423 thru-the-wall sleeve listed above. Illustrated installed on rear of sleeve. Provides permanent, decorative appearance with air conditioner in or out. 1 1/2" thick. White-Westinghouse model 846A597G11. Shpg. wt. 2 lbs.

No. 5H443. Grille. Retail \$23.27. Each.....**\$17.90**

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated, to railroad or trucking terminals within the United States (except Hawaii and Alaska), using routing of our choice. Any charges for delivery from terminal must be paid by consignee.

WINDOW-MOUNT FRAME



\$20.58

Allows easy 2-step installation of heating & cooling unit in most normal double hung windows. Requires 28 1/2 to 40" wide opening with a minimum height of 16". Includes aluminum frame with expandable mylar wing panels, sash seal, and all mounting hardware. White-Westinghouse brand (EA01W). Shpg. wt. 7 lbs.

No. 5H424. Retail \$26.75. Each.....**\$20.58**

Dayton BUTANE GAS TORCH

2300°F Adjustable Flame

\$4.42 Dayton Butane Torch provides maximum burning power at a minimum cost.

Lots 4

Widely used for sweating tubing joints, lead melting, soldering, thawing, metal forming, etc. Butane fuel releases 23% more BtuH's per unit of gas than propane—lasts longer, too. 2300°F flame. Instant lighting. Easy flame adjustment. Operates in any position. Torch consists of general purpose head and disposable 14.1 oz. fuel tank (No. 22131) with self-sealing valve. Dayton brand. Wt. 2 lbs.

No. 22130. Dayton Butane Torch. Retail \$6.80. Each \$4.77; lots 4, \$4.42



EXTRA TANK OF DAYTON BUTANE

No. 22131. 1 1/2 lbs. Retail \$2.30. Each.....**\$1.61**

TURNER PROPANE GAS TORCH

2300°F Pencil-Point Flame. Brass Valve Assembly

\$8.40

Lots 6

Use to solder, sweat copper tubing, thaw frozen pipes, heat asphalt tile, light fires, repair utensils, loosen bolts, etc. in homes, shops, laboratories, and on the farm. Has precision-machined forged brass valve assembly that is UL listed, plus large 14.1 oz. propane fuel tank that will give 12 to 16 hours of burning service. Accepts No. 12690 or other standard size replacement tank. 3" dia., 17" high overall. Turner Brand. (HT 555). Shpg. wt. 2 3/4 lbs.

No. 22168. Gas Torch. Retail \$12.56. Each \$9.05; lots 6.....**\$8.40**

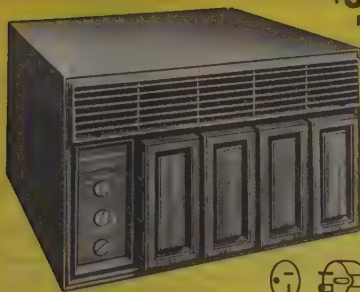


230/208 VOLT ROOM HEATING & COOLING UNITS

\$331.68

No. 3H247

W White-Westinghouse



- 11,000 BtuH Heating, 12,000 BtuH or 15,000 BtuH Cooling
- Cooling Capacities Verified by AHAM
- For Window or Thru-The-Wall-Mounting
- Resistance Type Heating Element
- Built-in Thermostat and 2-Speed Fan
- Washable, Framed Polyurethane Filter
- Neoprene Coated Fiberglass Insulation
- Furniture Styled, Hi-Impact Grille

LIMITED WARRANTY: 5 years on sealed system, 1 year on all other parts. See Limited Warranty Policy in Index.

Provides summer cooling and supplementary winter heating. Can be installed thru-the-wall using accessory weather-tight sleeve or in 28½ to 40" wide window using window frame kit; both available as accessory items—see facing page. Deluxe styling with hi-impact styrene, wood grain finish front panel which blends with any decor.

Built-in 11-position thermostat, 2-speed fan with high and low cool selection. Vent control

exhausts air or circulates room air. 4-Way directional air louvers for efficient circulation. Reliable resistance-type heating element. Permanent, washable, framed polyurethane filter. Neoprene coated fiberglass insulation for quiet, efficient operation. Cabinet is galvanized, bonderized steel, painted for maximum corrosion protection. For 230/208V, 60 Hz power. 14⅞ H x 24¼ W x 23⅝ D. 4 ft. L cord set; see plug/receptacle configuration above.

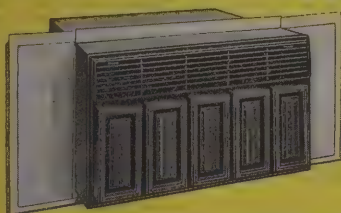
BtuH (*) Heating/Cooling	Mfr's. Model	Running Amps		EER (†)		Dehumid Pts./Hr.	Fan CFM High	Stock		Shpg. Wt.
		Heating	Cooling	230V	208V			No.	Retail	
11,000/12,000	AH12ET2T	16.0/14.5	9.0/9.4	6.2	6.0	3.8	350	3H247	\$431.18	\$331.68
11,000/15,000	AH15ET2T	16.0/14.5	11.8/12.0	6.0	5.7	4.6	360	3H248	464.65	357.42

(*) At 230V; BtuH will be approximately 6% lower on 208V. (†) Energy efficiency ratio.

ENERGY-CONSERVING ROOM AIR CONDITIONER

Energy Efficiency Ratio (EER) of 10.0. For 115V 60 Hz Power. Furniture Styling
8500 BtuH. Energy-Saver Circuit and Thermostat with Power Saver Range

White-Westinghouse



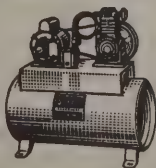
\$329.75

Highly efficient, 8500 BtuH/10.0 EER room air conditioner for window or thru-the-wall installation. Fits window openings 26¼ to 40" wide. Provides much greater operating economy than standard units. Also has special energy-saver which allows fan motor to stop automatically when compressor cycles off. Power-saving range on 11-position thermostat reminds user to keep temperature at an energy saving setting. High, medium and low cool selection; 3-speed fan, 250 CFM on high, 2-way air deflection louvers. Vent control exhausts air, circulates room air or draws in fresh outside air. Cabinet is double-coated galvanized steel. High-impact styrene grille finished in walnut wood grain. Mylar panels are beige finish. Furnished with window installation kit and permanent, framed polyurethane filter. Concealed controls. 2.9 pints/hour dehumidification. 115V, 60 Hz. 7.5A, 850 watts. 14⅞ H x 24¼ W x 23⅝ D. Shpg. wt. 117 lbs. White-Westinghouse model AH09717D.

No. 3H252. Retail \$428.68. Each.....\$329.75

1/4 to 25 HP SPEEDAIRE COMPRESSORS—DELIVERY FROM STOCK

More customers than ever rely upon us for prompt delivery of most widely-used types of portable and stationary air compressors and air line accessories. Full Speedaire line with units up to 25 HP, pumps, air receivers, belt guards, spray guns, air



tools and air line accessories are listed in this catalog. All Speedaire components are precision-built of finest long-life materials. Motors are heavy-duty Dayton brand. Refer to Index under Compressors, or specific item needed.

CENTRAL AIR CONDITIONING ACCESSORIES

Also See Index under Controls, Heating/Cooling



A PRE-CHARGED TUBING. Liquid line and rubber insulated suction line with quick-connect Aeroquip couplings. Positive seal, charged with refrigerant-22. For system sizes specified only.

FOR 23,000 to 34,000 BtuH SYSTEMS

Length	Liq. O.D.	Suct. O.D.	Stock No.	Each	Wt.
15'	1/4"	3/8"	3C082	\$33.71	9
20	1/4"	3/8"	3C157	41.41	12
25	1/4"	3/8"	3C084	48.66	14
35	1/4"	3/8"	3C293	63.14	23
45	1/4"	3/8"	3C294	78.33	30

FOR 42,000 to 60,000 BtuH SYSTEMS

Length	Liq. O.D.	Suct. O.D.	Stock No.	Each	Wt.
25'	3/8"	1/2"	3C095	\$67.10	21
40	3/8"	1/2"	3C096	94.22	30

B TRANSFORMER/RELAY PANEL. SPDT fan relay with 115V/24V, 40VA transformer. Mounts on 4 x 4" box. Convenient terminal board. Dayton brand. Shpg. wt. 2 3/4 lbs.

No. 2E342. Retail \$27.93. Each.....\$13.97

C THERMOSTATS. Full-feature, 24V mercury switch type. No sub-base required. Rugged anticipators. Slide in terminals. Narrow differentials. Dayton brand. Shpg. wt. 8 oz.

Heat/Cool, No. 2E273. Each.....\$11.41

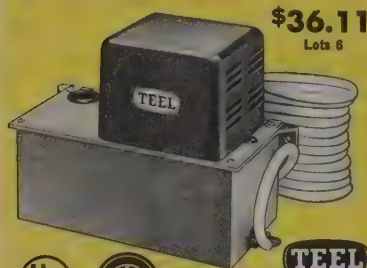
Cool Only, No. 2E278. Each.....\$7.51

D RAINPROOF DISCONNECT SWITCH. Non-fusible, in NEMA 3R enclosure. 60A, 120/240 VAC, 10 HP. Shpg. wt. 7 1/2 lbs.

No. 5X672. Switch. Retail \$22.80. Each.....\$11.40

UL & CSA LISTED TEEL CONDENSATE PUMP

8 to 75 GPH; Capable of 17 Ft. Lift Plus
300 Ft. of Horizontal Run



\$36.11

Lots 6

Delivers Up To
75 GPH

Removes condensate from central air conditioning systems and drains dehumidifiers. Designed for off-the-floor mounting onto furnace or air conditioner, or for wall mount (using lugs on pump). All plastic construction assures maximum corrosion resistance. Pump features big, one quart discharge per cycle, integral sump pan, control float for pump operation and safety float to cut-off low voltage thermostat of air conditioner in case of malfunction. Includes terminal board, BX bracket, micro switches, 90° outlet nipple and 20 ft. of 1/4" vinyl tubing, 1/35 HP, 115V, 60 Hz motor. 1/4" FPT outlet port. Pump dimensions 11 1/2" L, 8 H, 5 1/2" W. UL, CSA listed. Teel brand. Shpg. wt. 6 lbs.

No. 1P867. Retail \$55.55. Each \$38.89; lots 6, \$36.11

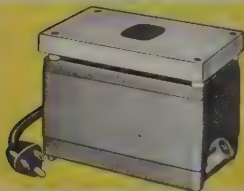
NO. 1P867 PUMP PERFORMANCE

Ratings based on using 1/4" tubing and fitting provided with unit. Ratings at 1 ft. and 6 ft. heads are approximately doubled if pump discharge is connected with 3/8" straight fitting and tubing; 12 ft. and 15 ft. ratings are same.

Head	1 Ft.	6 Ft.	12 Ft.	15 Ft.	—Maximum— Head	PSI
Gal./Hr.	75	50	20	8	17 ft.	7.4

5 TO 65 GPH, TEEL CONDENSATE REMOVAL PUMP

For Central Air Conditioners, Dehumidifiers. 0 to 10 Ft. Lift, Automatic Switch



TEEL

\$23.92

Lots 6

This Teel pump removes condensate from central air conditioners, drains dehumidifiers, removes minor seepage. Pumps 5 to 65 GPH, depending on head, run; up to 10 ft. head, 300 ft. horizontal run. Corrosion-resistant, all-plastic body, impeller. Built-in mercury float switch actuated by 3/4" water rise.

Low 4 1/4" height fits drip pan of most central air conditioners. 3 3/8" W, 6 3/4" L. Use optional No. 1P665 Kit with sump pan when drip pan is not available: 115V, 60 Hz. Shpg. wt. 3 1/2 lbs.

No. 1P664. Pump, only. Retail \$36.80. Each \$25.76; lots 6.....\$23.92

KIT FOR INSTALLING PUMP TO AIR CONDITIONING SYSTEM

Order with No. 1P664 Pump for air conditioning systems. Includes sump pan, check valve, tub-

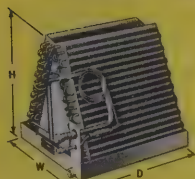
ing adapter, 20 ft. of 1/4" vinyl tubing. 2 lbs.

No. 1P665. Retail \$8.40. Each \$5.88; lots 6, \$5.46

COMPLETE CENTRAL AIR CONDITIONING SYSTEMS

Split Systems for Installation in Existing Forced-Air Furnace. Use Present Duct Work
23,000 to 34,000 BtuH Ratings. Components Pre-Charged for Easy Installation

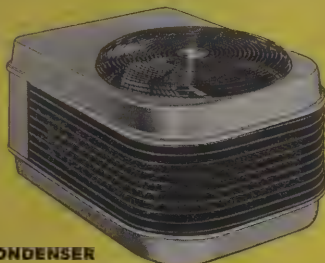
SYSTEM COMPONENTS Shipped in A Single Package



"A" COIL



PRE-CHARGED
TUBING



CONDENSER



THERMOSTAT



RELAY

\$496.80

23,000 BtuH

Comfort-Aire-Pac systems by Heat Controller Inc. speed and simplify conversion of residential and small business forced-air heating systems to year-around heating/cooling. Easily installed; use duct work of existing heating system to distribute cooled and dehumidified air. All systems are 230/208V, 60 Hz, single phase. UL & CSA listed. BtuH capacities rated per ARI standard #210-74. For larger systems see components listed on nearby pages.

• **ONE PACKAGE**—Contains all equipment needed for conversion; condenser, evaporator coil, Adapt-A-Ease coil mounting kit, liquid and suction line connecting tubing and heating/cooling thermostat.

• **PRE-CHARGED**—System components are pre-charged with Refrigerant-22, making installation easier, faster and cleaner than field charging.

• **EVAPORATOR COIL**—Fits in furnace plenum or duct. Aluminum-fin-on-copper-tube construction, with zinc coated steel frame, pre-charged with refrigerant. "A" type coil fits either upflow or downflow furnaces.

• **CONDENSER**—Placed outdoors on concrete slab. Air Conditioning - Refrigeration Institute rated units. Built of heavy-gauge, zinc-coated steel with epoxy primer and baked-on enamel finish for years of service. Sealed compressors have internal spring suspension for quiet operation, plus internal, automatic-reset thermal protection and anti-slug protection. Pre-charged with R-22. All units have capacitance off-cycle compressor heat.

• **RELAY/TRANSFORMER CENTER**—SPDT fan relay with 120 to 24VAC, 40 VA transformer and wiring panel included. Controls and power connections are readily accessible.

• **PRE-CHARGED TUBING**—Suction and liquid lines are pre-charged with R-22 and have quick-connect couplings that provide positive seal. Suction line rubber-insulated.

• **HEATING-COOLING THERMOSTAT**—Hand-somely styled, low-voltage, wall-mounted, heating-cooling thermostat furnished.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

Prepaid Freight on Shipments
of 300 Lbs. and Over

COMFORT-AIRE-PAC CAPACITIES AND ELECTRICAL REQUIREMENTS

Stock No.	Cooling Capacity (BtuH) At Outdoor Temperature Listed(*)			Sensible/Total Ratio @ 95°F Outdoor Air(†)	Evap. Air Flow CFM	Amps		Field Wire AWG#	Fuse Req'd. (Delay)	EER (‡)		Tubing Length
	85°F	95°F	105°F			230V	208V			230V	208V	
3C266	23,600	23,000	22,000	0.74	900	14.5	15.5	12	35A	7.0	6.6	20 ft.
3C267	27,300	26,000	23,900	0.75	1050	16.0	17.1	12	35A	7.0	6.8	20 ft.
3C268	31,100	30,000	27,600	0.75	1160	18.8	19.8	10	35A	7.0	6.7	25 ft.
3C269	35,300	34,000	31,300	0.74	1310	21.7	25.7	8	35A	7.2	7.0	25 ft.

COMFORT-AIR-PAC DIMENSIONS AND PRICES

Cooling Capacity(*) (BtuH, ARI)	Overall Dimensions						Mfr's. Model	Stock No.	Each	Shpg. Wt.
	Evaporator Coil			Condenser Cabinet						
	H	W	D	H	W	D				
23,000	9 ⁵ / ₈ "	17 ³ / ₄ "	19 ¹ / ₄ "	17 ¹ / ₂ "	35 ¹ / ₂ "	25 ¹ / ₂ "	UCP24	3C266	\$496.80	226
26,000	13 ¹ / ₄ "	17 ³ / ₄ "	19 ¹ / ₄ "	17 ¹ / ₂ "	35 ¹ / ₂ "	25 ¹ / ₂ "	UCP28	3C267	567.84	250
30,000	13 ¹ / ₄ "	17 ³ / ₄ "	19 ¹ / ₄ "	17 ¹ / ₂ "	35 ¹ / ₂ "	25 ¹ / ₂ "	UCP32	3C268	619.50	251
34,000	15 ¹ / ₄ "	17 ³ / ₄ "	19 ¹ / ₄ "	23	35 ¹ / ₂ "	25 ¹ / ₂ "	UCP36	3C269	679.13	270

(*) For 208 volt operation, deduct 1000 BtuH.

(†) 80°F dry bulb, 67°F wet bulb room temp; 75°F wet bulb outdoor ambient. Sensible/total ratio is determined by dividing the amount of sensible heat removed from the air by the total cooling capacity of the unit.

(‡) Energy Efficiency Ratio.

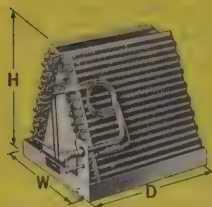
USE GRAINGER'S SUPPLY SERVICE—GET FAST TURNOVER WITH LESS INVENTORY

SEE WARRANTY INFORMATION ON PAGE 684

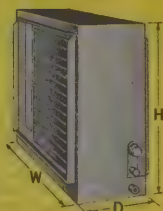
PRE-CHARGED A & H EVAPORATOR COILS

Matching Coils for Pre-Charged Condensers Listed on Nearby Page. Made by Heat Controller
All Units Have Capillary Tube Expansion and Are Designed for Use with Refrigerant-22 Only

"A" COIL



"H" COIL



"A" COIL

\$74.76

No. 4C412

"H" COIL

\$121.63

No. 3C088

PRESSURE DROP DATA, INCHES OF WC

Stock No.	CFM	Air Pressure Drop	
		Wet Coil	Dry Coil
4C412	860	0.28	0.19
4C413	1120	0.18	0.12
3C117	1275	0.21	0.15
3C091	1760	0.23	0.15
3C092	2280	0.22	0.17
3C086	1275	0.28	0.17
3C093	1760	0.22	0.15
3C094	2175	0.30	0.25

"A" COILS—For furnace plenum mounting where air distribution is multi-directional. Removable inspection plates provide easy access to evaporator surface. Insulated drain pan with $\frac{3}{8}$ " OD drain connection. Capillary tube expansion. For refrigerant -22 only.

"H" COILS—For use in horizontal flow-through applications. Heavy gauge cabinet with duct flange on inlet & outlet. Insulated drain pan with $\frac{3}{8}$ " OD drain connection. For blower modules see listing below. Capillary tube expansion. For refrigerant -22 only.

FOR EXACT BtuH RATINGS SEE CONDENSER LISTING ON NEARBY PAGE

EVAPORATOR COIL PRICES & SPECIFICATIONS

Coil Type	Nominal BtuH Rating	Overall Dimensions			Return H	Return W	Supply H	Supply W	Mfr. Model	Stock No.	Each	Shpg. Wt.
		H	W	D								
"A"	24,000	9 $\frac{1}{2}$ "	17 $\frac{3}{4}$ "	19 $\frac{1}{4}$ "	—	—	—	—	QO24AB	4C412	\$74.76	21
	33,000	13 $\frac{1}{8}$ "	17 $\frac{3}{4}$ "	19 $\frac{1}{4}$ "	—	—	—	—	QO33AB	4C413	89.49	26
	36,000	15 $\frac{1}{4}$ "	17 $\frac{3}{4}$ "	19 $\frac{1}{4}$ "	—	—	—	—	QO36AB	3C117	96.62	28
	48,000	16 $\frac{1}{8}$ "	26 $\frac{3}{8}$ "	21 $\frac{1}{4}$ "	—	—	—	—	Q48A	3C091	141.48	46
	60,000	21 $\frac{1}{8}$ "	26 $\frac{3}{8}$ "	21 $\frac{1}{4}$ "	—	—	—	—	Q60A	3C092	169.30	60
"H"	36,000	21 $\frac{1}{8}$ "	26 $\frac{3}{8}$ "	9	18"	24"	18"	24"	QO36H	3C086	121.63	47
	48,000	23 $\frac{3}{4}$ "	34 $\frac{3}{8}$ "	8 $\frac{3}{4}$ "	20	32	20	32	Q48H	3C093	165.62	56
	60,000	23 $\frac{3}{4}$ "	34 $\frac{3}{8}$ "	8 $\frac{3}{4}$ "	20	32	20	32	Q60H	3C094	179.33	62

MULTI-SPEED BLOWER MODULES

For Use with "H" Evaporator Coils Listed Above

\$142.42

1/3 HP

Direct-drive type with 115V, 60 Hz, permanent split capacitor motor. Includes housing and built-in transformer/relay. Manufactured by Heat Controller Inc. For horizontal air flow only.

BLOWER MODULE DIMENSIONS

Stock No.	Overall		Supply		Return		Mfr. Model
	H	W	H	W	H	W	
3C183	18 $\frac{1}{4}$ "	24 $\frac{1}{4}$ "	20 $\frac{1}{8}$ "	11 $\frac{7}{8}$ "	13 $\frac{7}{8}$ "	18"	B20-36
3C184	20 $\frac{1}{8}$ "	32 $\frac{1}{4}$ "	22 $\frac{1}{8}$ "	11 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "	20	B42-60

For Coil Stock No.	Blower Speed	CFM AIR DELIVERY					Mtr. Run HP	Filter Amps	Wheel Size	Stock No.	Each	Shpg. Wt.
		0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP						
3C086	Hi	1290	1230	1140	1020	850	1/3	6.3	20x25x1"(1)	3C183	\$142.42	68
	Med. Hi	1220	1160	1100	990	780						
	Med.	1140	1090	1020	920	730						
	Med. Lo	1040	1000	930	830	—						
3C093 & 3C094	Lo	950	910	850	—	—	1/2	12.3	16x20x1"(2)	3C184	191.67	97
	Hi	2280	2150	2070	1970	1860						
	Med. Hi	2060	2000	1930	1850	1750						
	Med. Lo	1920	1870	1810	1740	1650						
	Lo	1770	1740	1700	1640	1570						

STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

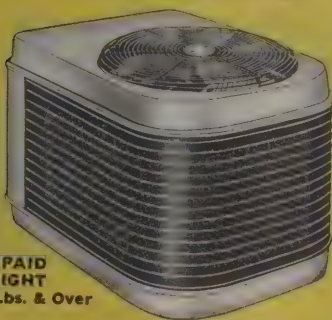
Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 5S1943.

PRECHARGED UP-DRAFT TYPE CONDENSERS

23,000 to 60,000 BtuH. Quiet, Efficient. ARI rated, UL & CSA listed. For 208/230V, 60 Hz

Comfort-Aire
by HEAT CONTROLLER, INC.



**PREPAID
FREIGHT
300 Lbs. & Over**

\$356.19

23,000 BtuH

High-efficiency, extra-quiet condenser units for residential and small commercial applications. Utilizes fused aluminum tube high-strength coil for dependability. Unique "U" shaped condensing surface provides greater cooling efficiency over other configurations, permits low silhouette. Low sound level allows convenient placement; special sound absorbing barriers suppress compressor noise. Vibration-free fan runs at quiet, low RPM.

Units are precharged and have quick-connect couplings. Easy access to contactor electrical connections and to all other components for cleaning. Compressors are internally sprung and have internal motor protection and off-cycle capacitance compressor heat on all sizes. Cabinets are 20 gauge zinc clad steel with bonderized and baked Epon primer, finished in long-life, metallic green, baked-on enamel. All units ARI rated, UL & CSA listed. See matching evaporator coils and precharged tubing listed on nearby pages. Table below lists all possible combinations of these condensers and matching evaporator coils stocked.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

BtuH CAPACITIES OF VARIOUS CONDENSER/EVAPORATOR COMBINATIONS

The following table lists resultant BtuH ratings for all possible combinations of the up-draft condenser units listed below and A and H type

evaporator coils listed on nearby page. All ratings are based on ARI standards. Also shown is required air flow across evaporator.

Condenser Stock No.	Evap. Coil Type	Evaporator Required Stock No.	Evap. Air Flow CFM Required	Sensible/Total Ratio @ 95°F Outdoor Air (%)	Cooling Capacity @ 95°F Outdoor Air		EER (†)	
					230V	208V	230V	208V
3C170	A	4C412	900	0.740	23,000	22,000	7.0	6.7
3C171	A	4C413	1010	0.725	26,000	25,000	7.0	6.7
	A	3C117	1050	0.760	27,000	26,000	7.1	6.8
	H	3C086	1010	0.735	26,000	25,000	7.0	6.7
3C172	A	4C413	1050	0.745	30,000	29,000	7.0	6.7
	A	3C117	1200	0.760	31,000	30,000	7.2	6.9
	H	3C086	1120	0.755	30,000	29,000	7.0	6.7
3C173	A	3C117	1310	0.740	34,000	33,000	7.2	7.0
	H	3C086	1310	0.740	34,000	33,000	7.2	7.0
3C174	A	3C091	1610	0.750	42,000	41,000	7.1	6.9
	H	3C093	1610	0.750	41,000	40,000	7.1	6.9
3C175	A	3C091	1800	0.750	47,000	46,000	7.6	7.4
	H	3C093	1800	0.750	47,000	46,000	7.6	7.4
3C176	A	3C092	2320	0.800	60,000	60,000	7.2	7.2
3C177	H	3C094	2175	0.800	59,000	59,000	7.1	7.1

* 80°F dry bulb, 67°F wet bulb room temp; 75°F wet bulb outdoor ambient. Sensible/total ratio is determined by dividing the amount of sensible heat removed from the air by the total cooling capacity of the unit.

† Energy efficiency ratio.

UP-DRAFT CONDENSER SPECIFICATIONS & PRICES

Nominal Capacity BtuH	FOR 208/230V, 60 HZ POWER					Dimensions			Mfr. Model	Stock No.	Each	Shpg. Wt.
	Phase	Line Amps	Min. Wire AWG#	Fuse Required (Delay)		H	W	D				
23,000	1	15.5/14.5	12	30A		17 1/4"	25 1/2"	35 1/2"	UCS24-1B	3C170	\$356.19	165
27,000	1	17.1/16.0	12	35		17 1/4"	25 1/2"	35 1/2"	UCS28-1B	3C171	410.30	176
31,000	1	19.8/18.8	10	35		17 1/4"	25 1/2"	35 1/2"	UCS30-1B	3C172	455.59	179
34,000	1	25.7/21.7	10/12	35		23	25 1/2"	35 1/2"	UCS36-1B	3C173	512.05	198
42,000	1	30.5/26.5	8	40		23	25 1/2"	35 1/2"	UCS42-1A	3C174	555.51	230
47,000	1	29.5/28.5	8	40		23	25 1/2"	35 1/2"	UCS48-1A	3C175	626.25	233
50,000	1	37.0/35.0	6	60		23	25 1/2"	35 1/2"	UCS60-1A	3C176	784.24	268
50,000	3	29.5/25.5	8	40/35		23	25 1/2"	35 1/2"	UCS60-3A	3C177	790.68	265

EVAPORATORS & PRECHARGED TUBING FOR ABOVE UNITS LISTED ON NEARBY PAGES

PHONE YOUR ORDERS FOR WILL-CALL SERVICE

You save time and money when you place pick-up orders by phone. Our people can have your merchandise ready when your truck arrives, and a special Will-Call section at our counter gives your driver extra-fast service.

SEE WARRANTY INFORMATION ON PAGE 684

SPLIT-COMPONENT ROOM AIR CONDITIONERS

Compact Systems Utilize Separate Outdoor Condenser and Indoor, Wall-Mounted Evaporator
6000 to 15,500 BtuH, ARI Rated. All Components Precharged for Simplified Installation
15,500 BtuH System Also Available with Built-In 12,300 BtuH Electric Heating Element

\$472.42

No. 3C292
Heating/Cooling

\$295.43

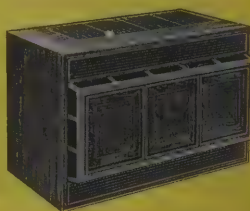
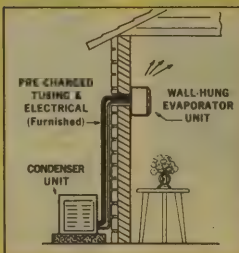
No. 3C180
Cooling Only

Comfort-Aire
by

HEAT CONTROLLER, INC.



CONDENSER
All Systems



EVAPORATOR
Nos. 3C181, 3C182, 3C292

Versatile, easy-to-install Twin-Pac systems solve many problem air conditioning applications. Excellent for mobile homes, room additions, in multiples for whole-house cooling, etc. Systems utilize separate precharged condenser and evaporator units connected by precharged liquid and insulated suction lines. Evaporator unit hangs on inside wall, practically anywhere, eliminating window blockage or need for making large hole through wall. Condenser mounts outside on slab next to wall, isolating compressor and condenser fan noise from living area. Only a 2½" hole through wall is required for tubing, electrical and condensate lines. Attractive, lightweight evaporator unit requires minimal wall space and has quiet multifo blower with push button selection of hi and lo cooling and hi and lo fan-only. Automatic, adjustable thermostat and lifetime washable filter. Cabinet finished in walnut woodgrain vinyl.

Compact condenser unit containing compressor and condenser fan is factory-matched to evaporator. Comes with 8 ft. of precharged tubing factory connected; see listing below for 11 ft. tubing extension kits. Quick-connect couplings join tubing to evaporator unit. Wrench supplied. Field wiring is factory connected to evaporator, ready for connection to condenser through convenient access plate. Cabinet is constructed of heavy-gauge galvanized steel finished in baked-

on beige enamel. Sturdy grille protects condenser coil. Supplied with evaporator mounting bracket, mounting template and adjustable wall sleeve for tubing and electrical. All components shipped in a single carton. All systems UL listed and ARI rated.

ELECTRIC HEAT SYSTEM—No. 3C292 system incorporates an electric resistance heating element to provide winter heating in addition to summer cooling. Appearance and air conditioning performance of this unit are identical to that of No. 3C182 system. UL listed and ARI rated.

EXTRA TUBING KIT—Allows evaporator unit to be installed an additional 11 ft. from condenser, for a total of 19 ft. maximum. Usually necessary on 2-story buildings, etc. Kit includes precharged liquid and suction lines with quick-connect couplings, electrical cable assembly and condensate drain tubing. See table below for correct tubing kit.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

Prepaid Freight on Shipments of 300 lbs. & Over
See Prepaid Freight Policy in Index

AIR CONDITIONER DIMENSIONS

Stock No.	Condenser			Evaporator		
	H	W	D	H	W	D
3C180	11 7/8"	18 1/4"	14"	11 7/8"	18 1/4"	9 1/2"
3C181	15 1/4"	23 7/8"	15	15 1/4"	23 7/8"	12
3C182	15 1/4"	23 7/8"	15	15 1/4"	23 7/8"	12
3C292	15 1/4"	23 7/8"	15	15 1/4"	23 7/8"	12

11 Ft. TUBING EXTENSION KITS (†)

Split Component System Stock No.	Tubing Kit Stock No.	Each	Shpg. Wt.
3C180	3C209	\$40.29	12
3C181	3C210	40.29	12
3C182 and 3C292	3C211	40.29	12

(†) Shipped from Chicago Service Dept. Order from nearest W.W. Grainger, Inc. address for fastest service.

COMPLETE TWIN-PAC AIR CONDITIONING SYSTEMS

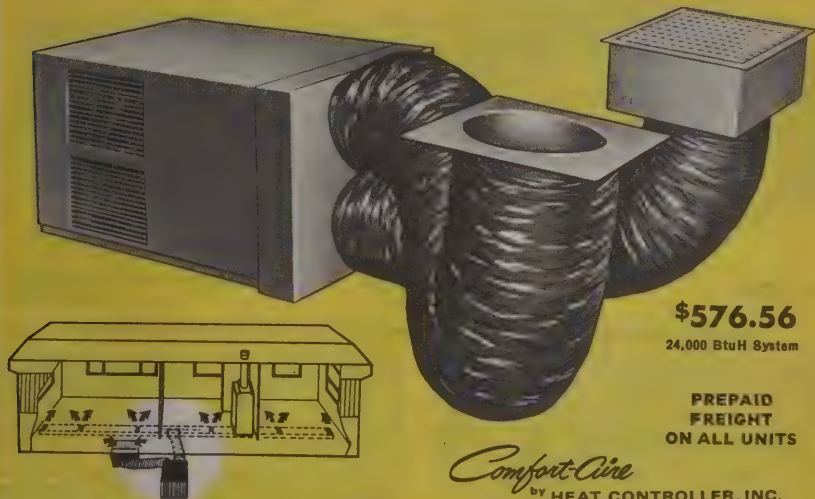
— BtuH Output — Cooling (ARI) Heating	Mfr's. Model	Heating Watts	Volts, 60 Hz	Line Amps	EER (†)	Field Wire AWG	Delay Fuse Required	Evap. CFM Hi/L0	Stock No.	Each	Shpg. Wt.
6,000	—	MTP-601	—	115	10.0	6.0	14	165/140	3C180	\$295.43	118
10,500	—	MTP-111	—	115	12.0	7.0	12	370/340	3C181	437.03	169
15,500(*)	—	MTP-163	—	230/208	13.1	6.0/5.8	12	370/340	3C182	465.72	186
15,500(*)	12,300(‡)	MTPE-163	3600(\$)	230/208	13.1(v)	6.0/5.8	12	370/340	3C292	472.42	190

(*) 15,000 BtuH at 208V. (‡) 10,300 at 208V. (\$) 3,000 at 208V. (†) Energy efficiency ratio. (v) For cooling. 14.7A for heating on 230V, 15.6 on 208V.

You Can Get Same-Day Shipping Service on Most Items in this MotorBook

MOBILE HOME CENTRAL AIR CONDITIONING

24,000 to 36,000 BtuH Self-Contained Central Systems. Uses Existing Heating Ductwork
ARI Rated. Includes Flexible Connecting Ducts, Transitions, Return Plenum and Filter



\$576.56

24,000 BtuH System

**PREPAID
FREIGHT
ON ALL UNITS**

Comfort-Aire

by HEAT CONTROLLER, INC.

Complete central cooling packages designed specifically for small, medium and large size mobile homes. Compact systems install outdoors on slab and connect to existing warm air supply ducts of mobile home. Complete with insulated plenum, return air box with lifetime, washable, filter and floor grille, and 12" dia. flexible supply and return connecting ducts which provide maximum air flow while isolating operating noise and vibration from living area. Ducts are fully insulated and wrapped with plastic film for protection against weather, dust and dirt. The return and supply duct section is 14 ft. long. Can be cut to required size at job site; hardware necessary for duct installation is included. High capacity return air box measures 14 $\frac{1}{2}$ x 20 $\frac{1}{2}$ x 8" H, with 1 $\frac{1}{2}$ " W mounting flange.

All units feature hermetically sealed compressors with internal spring suspension for quiet operation, plus internal, automatic-reset thermal

protection and anti-slug protection. Pre-charged with R-22. Simplified controls and a clean, uncluttered design provide greater reliability and easier, faster installation. Condenser fan and evaporator blower are driven by a 3/4 HP permanent split capacitor motor. All units are ARI rated, and UL and CSA listed.

Engineered with the installer and serviceman in mind. Lightweight, easy-to-handle. Easily accessible electrical box and compressor terminals. Ruggedly constructed cabinet is heavy-gauge, zinc-coated steel with baked-on beige enamel finish which is highly weather resistant. Supplied with Honeywell 24-Volt cooling thermostat with Off and Fan settings and a summer blanking plate.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

AIR FLOW DATA IN CFM

Stock No.	CFM, Inches Water Column						
	0.45	0.5	0.6	0.7	0.8	0.9	1.0
3C190	995	980	950	920	885	850	810
3C178	995	985	965	945	925	905	880
3C179	965	955	935	910	880	840	760

AIR CONDITIONER DIMENSIONS

Stock No.	Overall			Supply Flange Oval	Return Flange Oval
	H	W	D		
3C190	22"	27 $\frac{1}{8}$ "	40 $\frac{1}{2}$ "	6 $\frac{3}{4}$ x14 $\frac{11}{16}$ "	9x13 $\frac{3}{4}$ "
3C178	22"	27 $\frac{1}{8}$ "	40 $\frac{1}{2}$ "	6 $\frac{3}{4}$ x14 $\frac{11}{16}$ "	9x13 $\frac{3}{4}$ "
3C179	22"	27 $\frac{1}{8}$ "	40 $\frac{1}{2}$ "	6 $\frac{3}{4}$ x14 $\frac{11}{16}$ "	9x13 $\frac{3}{4}$ "

MOBILE HOME AIR CONDITIONERS CAPACITIES, ELECTRICAL DATA AND PRICES

Cooling Capacity (BtuH) at Outdoor Temps. Listed			Volts 60 Hz	Line Amps	Phase	Fuse Req. (Delay Type)	Field Wire AWG#	EER(*)	Mfr's. Model	Stock No.	Each, Freight Prepaid	Shpg. Wt.
85°F	95°F	105°F										
25,200	24,000	22,600	230	20.0	1	30A	10	5.5	MPC24-1B	3C190	\$576.56	315
29,400	28,000	26,300	230	21.4	1	30A	10	6.0	MPC28-1B	3C178	648.68	327
37,800	36,000	33,800	230/208(t)	28.0	1	35A	8	6.2/6.0	MPC36-1B	3C179	699.42	350

(t) BtuH capacity reduced by 3% at 208V. (*) Energy efficiency ratio.

Call Us For Regular and Emergency Needs — Rely on Immediate Delivery

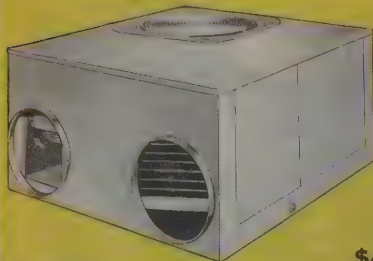
SEE WARRANTY INFORMATION ON PAGE 684

PACKAGED UNITARY AIR CONDITIONERS

23,000 to 59,000 BtuH, ARI Rated Units for Commercial and Residential Use
Entirely Self-Contained; Ready for Connection to Ductwork and Electrical Power

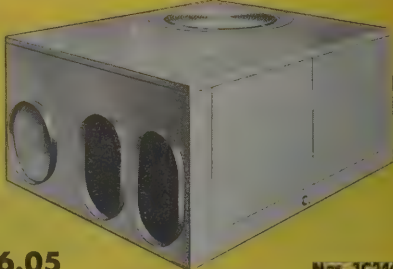
MFD. BY HEAT CONTROLLER INC.

Prepaid Freight on All Units



Nos. 3C260,
3C261

\$616.05
23,000 BtuH



Nos. 3C244,
3C262, 3C263

Electric Insert Strip Heaters for Field Installation Available on Special Order

Designed for use with ducted air conditioning systems in both residential and commercial installations. Can be rooftop or slab mounted using new or existing ductwork. All units feature sealed compressors with integral spring suspension for quiet operation, plus internal, automatic-reset thermal protection and anti-slug protection. Pre-charged with R-22.

Simplified controls and a clean, uncluttered design provide greater reliability and easier, faster installation, multi-speed, direct drive blower motor allows air flow to be adjusted for particular system static pressure. See performance chart at left for air delivery specifications. All units are ARI rated, UL and CSA listed.

Engineered with the installer and serviceman in mind. Light weight, easy-to-handle. Completely accessible electrical box, gauge access ports on high and low sides, accessible compressor terminals. All parts easily serviced. Ruggedly constructed cabinet is heavy-gauge, zinc-coated steel with baked-on enamel finish. Angle brackets for rectangular supply and return included. Requires 24V thermostat; 115/24VAC transformer supplied.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

EVAPORATOR CFM AT BLOWER SPEED SHOWN

Stock No.	Blower Speed	Static Pressure, Inches of Water						
		0.2"	0.4"	0.6"	0.8"	1.0"	1.2"	1.3"
3C295	Hi	900	470	—	—	—	—	—
	Lo	555	(*)	—	—	—	—	—
3C260	Hi	—	—	—	1300	1200	1050	1000
	Med	1380	1365	1290	1175	—	—	—
3C261	Hi	—	—	—	1300	1200	1050	1000
	Med	1380	1365	1290	1175	—	—	—
3C262	Hi	—	—	—	2000	1700	1400	—
	Med	2050	1910	1750	1550	—	—	—
3C263	Hi	—	—	—	2100	1900	1750	—
	Med	2115	2060	1975	1870	—	—	—
3C244	Hi	—	—	—	2100	1900	1750	—
	Med	2115	2060	1975	1870	—	—	—

(*) 340 CFM at 0.3"

UNITARY AIR CONDITIONER DIMENSIONS

Stock No.	Overall			Supply			Return		
	H	W	D	H	W	Dia.	H	W	Dia.
3C295	20½"	38"	41½"	16"	12"	—	16"	16"	—
3C260	20½"	38"	41½"	16"	12"	12"	16"	16"	12"
3C261	20½"	38"	41½"	16"	12"	12"	16"	16"	12"
3C262	23"	42"	50"	20"	12"	12"	20"	24"	*
3C263	23"	42"	50"	20"	12"	12"	20"	24"	*
3C244	23"	42"	50"	20"	12"	12"	20"	24"	*

(*) Two 9 x 13½" ovals.

UNITARY AIR CONDITIONER CAPACITIES, ELECTRICAL DATA AND PRICES

Cooling Capacity at 95°F Outdoor Air Temperature	Sensible/Total Ratio @ 95°F Outdoor Air (†)	Volts 60 Hz	Line Amps	Phase	Fuse Req. (Delay)	Field Wire AWG#	EER (†)	Mfr. Model	Stock No.	Each Freight Prepaid	Shpg. Wgt.
23,000	0.70	208/230	17.5/16.5	1	25A/25A	10	6.3	PCT-24-1B	3C295	\$616.05	329
29,000	0.69	208/230	24.9/23.1	1	25A/25A	10	6.3	PCT-30-1A	3C260	647.78	347
36,000	0.65	208/230	31.0/30.0	1	35A/35A	8	6.2	PCT-36-1A	3C261	765.59	356
48,000	0.69	208/230	42.1/39.5	1	45A/40A	6	5.9	PCT-48-1A	3C262	1023.43	429
59,000	0.69	208/230	52.1/47.5	1	60A/50A	4	6.0	PCT-60-1A	3C263	1174.23	462
59,000	0.69	208/230	32.0/29.3	3	40A/40A	8	6.0	PCT-60-3A	3C244	1184.39	477

(†) 80°F dry bulb, 67°F wet bulb room temp; 75°F wet bulb outdoor ambient. Sensible/total ratio is determined by dividing the amount of sensible heat removed from the air by the total cooling capacity of the unit.

(†) Energy efficiency ratio.

PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

Information on most major items in Grainger's MotorBook is available for the asking. Let our sales or counter people know what you need,

or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.

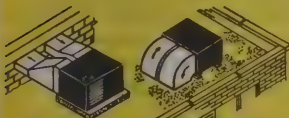
PACKAGED HEATING-COOLING SYSTEMS

Gas-Fired, Power-Vented Heating and Electric Air Conditioning in Single, Compact Unit

PREPAID FREIGHT ON ALL UNITS

\$832.37

24,000 BtuH Cooling
60,000 BtuH Heating

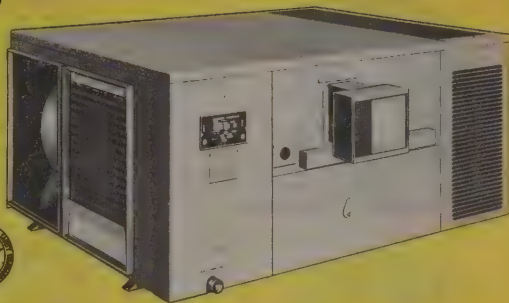


SLAB-MOUNT

ROOF-MOUNT

Comfort-Cine
by

HEAT CONTROLLER, INC.



High-performance, self-contained heating and cooling units for commercial or residential use. Designed for roof-top or slab mounting. Can be used in multiples for efficient, zoned, comfort control. Easily adapted to new construction or to existing ductwork. Closely spaced side-by-side supply and return connections allow convenient duct runs to false ceiling, crawl space, basement, etc., and permit smallest opening in wall or roof. Low silhouette with side mounted exhaust stack eliminates unsightly appearance in roof installation. Insulated cabinet minimizes heat losses, assures minimum operating costs. Multi-speed direct drive blower allows air flow to be adjusted. ARI rated & AGA listed.

Heat exchanger is aluminized steel. Stamped, aluminized steel burners, suitable for natural or LP gas. Direct spark ignition with 100% safety controls. Power vented combustion is unaffected by wind or unit location. Power vent motor has centrifugal switch which prevents gas valve from opening until vent is operating. All heating controls, burners, power vent motor, etc., are accessible from one side of the unit. Controls include gas valve, spark igniter, flame sensor, ignition transformer, timer box, and limit control. Heating blower relay is delay type.

All units feature hermetically sealed compressors with internal, automatic-reset thermal protection plus anti-slug protection. Crankcase

heater on units of 35,000 BtuH or more cooling. Precharged with R-22. Condenser fans are pull-thru type, driven by permanently lubricated, permanent split capacitor motors. Supplied with Honeywell room thermostat and manual change-over sub-base.

LIMITED WARRANTY: 5 years on compressor, 1 year on all other parts. See Limited Warranty Policy in Index.

EVAPORATOR CFM AT BLOWER SPEED SHOWN

Stock No.	Blower Speed	Static Pressure, Inches of Water			
		0.2"	0.3"	0.4"	0.5"
3C247	High	930	870	810	750
	Low*	1000	940	880	820
3C248	High	1090	1040	990	940
	Low*	1060	1020	970	920
3C249	High	1260	1200	1140	1070
	Med. Low*	1110	1040	970	910
3C252	High	2200	2120	2060	1980
	Med. Low	1720	1680	1640	1590
3C254	High	1560	1510	1460	1420
	Med. Low	2180	2110	2040	1960
	High	1730	1700	1660	1620
	Low	1490	1460	1440	1400

(*) Heating speed, dry coil.

HEATING-COOLING UNIT CAPACITIES & PRICES

Cooling Capacity (BtuH) at Outdoor Temperatures Listed			Sensible/Total Ratio @ 95°F Outdoor Air (†)	Heating BtuH (v)		Mfr. Model	Stock No.	Each Freight Prepaid	Shpg. Wt.
85°F	95°F	105°F		Input	Output				
25,500	24,000	21,900	0.74	80,000	60,000	TG24-1G-80	3C247	\$832.37	378
29,200	28,000	26,200	0.71	80,000	60,000	TG30-1G-80	3C248	892.87	483
36,500	35,000	32,800	0.70	100,000	75,000	TG36-1G-100	3C249	964.99	502
50,300	48,000	44,500	0.75	140,000	105,000	TG48-3G-140	3C252	1443.82	765
63,000	60,000	55,700	0.75	140,000	105,000	TG60-3G-140	3C254	1637.15	800

HEATING-COOLING UNIT DIMENSIONS & ELECTRICAL DATA

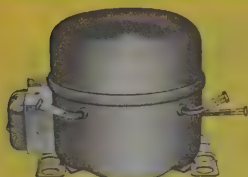
Stock No.	Overall			Flanges		Cooling CFM	Heating CFM	Blower HP	Volts 60 Hz	Line Amps	Fuse Req. Phase (Delay)	Field Wire AWG	EER (‡)
	H	W	D	H	W								
3C247	24 3/4"	42"	53"	20"	16"	900	925	1/4	208/230	21.8/19.8	1	30A	10 6.0
3C248	24 3/4"	42"	53"	20"	(§)	1050	925	1/4	208/230	24.2/22.0	1	30A	10 6.2
3C249	24 3/4"	42"	53"	20"	(§)	1250	1160	1/2	230	28.0	1	40A	8 6.1
3C252	29 1/2"	50"	76"	24"	(**)	1800	1620	3/4	208/230	28.1/25.5	3(†)	35A	8 6.0
3C254	29 1/2"	50"	76"	24"	(**)	2100	1620	3/4	208/230	31.9/29.1	3(†)	45A	8 6.3

(v) All models available for propane gas on special order. (†) Nos. 3C252 & 3C254 available for 240V, 1-Phase on special order. Allow 4 wks. for specials. F.O.B. factory. Order from nearest Grainger Sales Office/Warehouse. (‡) Supply flange 20", return flange 16". (**) Supply, 24"; return 20". (†) 80°F dry bulb, 67°F wet bulb room temp; 75°F wet bulb outdoor ambient. Sensible/total ratio is determined by dividing the amount of sensible heat removed from the air by the total cooling capacity of the unit. (‡) Energy efficiency ratio.

SEE WARRANTY INFORMATION ON PAGE 684

HERMETICALLY SEALED COMPRESSORS for

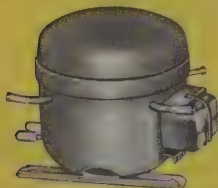
Low and High Back-pressure Models. 388 to 4000 BtuH Capacities. 1/8 to 1/3 Nominal HP



\$64.38

No. 22907

A **AMERICOLD**
LOW BACK-PRESSURE



\$75.01

No. 22904

B **KELVINATOR**
LOW BACK-PRESSURE



\$64.07

No. 22911

C **WESTINGHOUSE**
LOW AND HIGH
BACK-PRESSURE

- For Refrigerant-12 (R-12) Systems Using Capillary Tube Expansion
- For 115 Volt, 60 Hz and 100 Volt, 50 Hz, Single Phase Power
- All Units Complete with Starting Relays, Thermal Protectors and Mounting Grommets
- All Units Fully Charged with Compressor Oil
- Models Available with Oil Cooling Tubes
- Split Phase Motors on All Units

Quality engineered compressors for replacement on residential and commercial refrigeration equipment using R-12. Can be used as direct replacements or as substitutes for other makes of similar capacity and electrical specifications, provided physical size, mounting feet dimensions and tubing location are compatible. All moving parts are matched and fitted to close tolerances for low temperature applications. Mechanical and gas pulse noise and vibrations are minimized.

Low back-pressure compressors are widely used in refrigerators, freezers, ice cream cabinets and many other low temperature appliances. Several models listed have oil cooling tubes which may be field connected if needed on non-dynamic (no fan) condenser applications.

High back-pressure compressors listed are primarily used on water coolers and dehumidifiers.

Stock No.	COMPRESSOR DIMENSIONS				
	Mounting Feet On-Center	Height	Discharge	Connections ID Suction	Oil Tube
22907	6 1/2 x 4"	6.75"	0.194"	0.260"	—
22908	6 1/2 x 4"	7.00	0.194	0.260	—
22909	6 1/2 x 4"	8.00	0.260	0.320	0.194"
22910	6 1/2 x 4"	8.00	0.260	0.320	0.194
22904	7x7	7.75	0.194	0.319	0.756
22905	7x7	7.75	0.194	0.319	0.756
22906	7x7	7.75	0.194	0.319	0.756
22911	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22912	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22913	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22914	7 1/2 x 4 1/4"	8.00	0.194	0.257	—
22915	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22916	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22917	7 1/2 x 4 1/4"	7.65	0.194	0.257	—
22918	7 1/2 x 4 1/4"	7.86	0.194	0.257	—

LOW BACK-PRESSURE REFRIGERATION COMPRESSORS

Manufacturer	Mfr's. Model	BtuH Capacity(*)		Nominal HP	Run Amps at BtuH Rating(*)	Oil Cooling Tubes	Stock No.	Retail Each		Shpg. Wt.
		115V, 60 Hz	100V, 50 Hz							
A Americold	ML38-1	388	330	1/8	1.7	No	22907	\$127.05	\$64.38	21
	ML52-1	518	430	1/6	2.04	No	22908	131.40	66.03	23
	ML064-1	680	570	1/5	2.43	Yes	22909	135.34	68.15	25
	ML090-1	910	730	1/4	3.41	Yes	22910	140.43	70.63	25
B Kelvinator	A045-1	923	770	1/4	3.5	Yes	22904	160.50	75.01	30
	A044-1	1050	875	1/4	4.0	Yes	22905	163.00	76.28	30
	A033-1	1290	1075	1/3	4.7	Yes	22906	168.00	77.65	31
C Westinghouse	T37L-1	420	380	1/8	2.1	No	22911	141.81	64.07	22
	T52L-1	780	720	1/5	3.0	No	22912	150.51	68.10	23
	T69L-1	1170	990	1/3	4.3	No	22913	158.38	71.62	23
	T78L-1	1350	1125	1/3	4.7	No	22914	170.61	77.48	32

HIGH BACK-PRESSURE REFRIGERATION COMPRESSORS

Manufacturer	Mfr's. Model	BtuH Capacity(*)		Nominal HP	Run Amps at BtuH Rating(*)	Oil Cooling Tubes	Stock No.	Retail Each		Shpg. Wt.
		115V, 60 Hz	100V, 50 Hz							
C Westinghouse	T27H-1	1500	1300	1/8	2.6	No	22915	\$144.66	\$65.32	22
	T37H-1	2000	1700	1/5	3.9	No	22916	147.34	66.70	23
	T52H-1	3100	2600	1/4	5.2	No	22917	158.74	71.70	24
	T69H-1	4000	3400	0.43	6.9	No	22918	169.25	76.46	26

(*) Low back pressure units: At 90°F ambient, 90°F liquid, 90°F return gas, —10°F evaporator, 130°F condenser. High back pressure units: at 95°F ambient, 115°F liquid, 95°F return gas, 45°F evaporator, 130°F condenser.

RESIDENTIAL & COMMERCIAL REFRIGERATION

REFRIGERATION COMPRESSOR CAPACITY COMPARISON GUIDE

Lists Our Stock Nos. for Units with Capacity Comparable to Original Equipment
For Systems Using Refrigerant-12 Only

Table below lists our Stock Nos. for replacement compressors with capacity comparable to original equipment units. However, not all units with comparable capacity have same height and mounting foot dimensions as original equipment compressors.

Stock Nos. identified with (*) symbol are units with centrally located tubing, comparable overall dimensions and same mounting feet locations as original equipment model listed.

Stock Nos. identified with (†) symbol are units with centrally located tubing, comparable overall dimensions but with possible differences in mounting feet location. Compare mounting foot dimensions given in table on facing page with those of original unit.

Stock Nos. not identified with a symbol are units with capacity comparable to original equipment unit listed; however they do not have same height, connection or mounting feet dimensions. Compare dimensions in table on facing page with those of original compressor to determine if unit will fit.

TO USE GUIDE: Find name of manufacturer of original equipment compressor. Under heading for that manufacturer find model number of original unit. Number to right of original-unit model number is our Stock No. for new unit of comparable capacity. Check for compatibility of dimensions as explained above. If two new-unit Stock Nos. are listed, both units have capacity comparable to that of original unit; however, dimensions of one or both may be different from those of original unit.

AMERICOLD Low Back-Pressure		DANFOSS Low Back-Pressure		NECCHI Low Back-Pressure		TECUMSEH Low Back-Pressure	
Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.
ML38-1	2Z907*	PW4.5K9	{2Z907* 2Z911	M2060H	2Z909*	P6112	{2Z908* 2Z911
ML52-1	2Z908*	PW5.5K11	2Z908*	M2070H	{2Z904 2Z910*	P91	2Z907*
ML064-1	2Z909*	PW7.5K14	2Z909*	M2080	{2Z904 2Z910*	S4416	2Z910*
ML090-1	2Z910*	PW9K18	{2Z910* 2Z912			S4814	2Z913
						S64	2Z909*
ASPERA-FRIGO Low Back-Pressure		DANFOSS High Back-Pressure		NECCHI High Back-Pressure		TECUMSEH High Back-Pressure	
E1115B	2Z907*	PW4.5K11	2Z915	M2130	2Z915	AE3414A	2Z915
E1134A	{2Z909* 2Z912	PW5.5K14	2Z916			AE4430A	2Z917
E3115A	2Z908*	PW9K22	2Z917			AE4440A	2Z918
E3118A	2Z911					AEZ7A7	2Z915
COPELAND Low Back-Pressure		GIBSON Low Back-Pressure		TECUMSEH Low Back-Pressure		AP4111	2Z917
DFBI-0013	{2Z907* 2Z911	H, K, L, 65	2Z905*	AE1336A	2Z907*	BP3311	2Z918
DFCI-0017	2Z908*	L70	2Z905*	AE1343A	{2Z908* 2Z911	CAP3311	2Z918
DFDI-0025	{2Z908* 2Z912			AE1360A	2Z909*	CAT34	2Z918
DFEI-0025	{2Z904 2Z910*			AE1380A	{2Z910* 2Z912	CAT4C	2Z917
JFC-0025	{2Z913 2Z905			AE1411A	2Z913	P61	2Z915
JFB-0033	{2Z906 2Z914			AE1411E	2Z905	S3N14	2Z918
COPELAND High Back-Pressure		KELVINATOR Low Back-Pressure		AE4ZF11	2Z912	WESTINGHOUSE Low Back-Pressure	
RE-0033	2Z918	A033	2Z906*	AE5ZF9	2Z909*	T-37	2Z911†
RN-0025	2Z917	A044	2Z905*	AE6ZD7	{2Z908* 2Z911	T-52	2Z912†
		A045	2Z904*	AE8ZA7	2Z907*	T-69	2Z913†
				AJ438	2Z913	T-78	2Z914†
				AP43	2Z910*		
				AR43	2Z910*	WESTINGHOUSE High Back-Pressure	
				AT35	{2Z906 2Z914	T-27	2Z915†
				AT52	2Z912	T-37	2Z916†
				CAT43	{2Z904* 2Z910*	T-52	2Z917†
						T-69	2Z918†

(*) Indicates compressor with centrally located tubing, comparable overall dimensions and common feet locations for ease of installation.

(†) Indicates replacement compressor except for possible mounting feet location differences. Refer to dimensions on facing page.

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
NOW THE GRAINGER PEOPLE WHO SERVE YOU



SEE WARRANTY INFORMATION ON PAGE 684

19,000 to 40,000 BtuH SEALED COMPRESSORS

High Back-Pressure Type for Refrigerant-22 (R-22), Capillary Tube or Expansion Valve Systems

SUNDSTRAND BRAND

ALL MODELS FEATURE:

- Full Hermetically Sealed Design
- 208/230 Volt, 60 Hz, 1 Phase Operation
- 3500 RPM Permanent Split Capacitor Motor
- Internal High Pressure Relief Valve
- Internal Line Break Motor Protection
- 10 to 55°F Evaporator Temperature Range
- Completely Dehydrated, Fully Oil Charged
- Mounting Hardware and Terminal Cover
- Low Vibration Level. UL Recognized

Quality compressors for replacement use in air conditioning, refrigeration and heat pump systems. Will fit very tight installations and can be used as replacements for other manufacturer's models of similar capacity and electrical specifications, provided physical size, mounting feet dimensions and tubing locations are compatible. All units feature the latest in design technology and manufacturing techniques, resulting in a high degree of efficiency, quietness and reliability. Parts are matched and fitted to close tolerances and ultrasonically cleaned. All bearings are oversized and pressure lubricated. Units have three-point internal spring suspension, low mechanical and gas pulse noise, conservative motor operating temperatures. All units are test-run after assembly.



Nos. 2Z990-2Z994

\$122.50

No. 2Z990

NEW



Nos. 2Z995, 2Z996

\$152.03

No. 2Z995

COMPRESSOR DIMENSIONS

Stock No.	Mounting Feet On-Center	— Connections ID —		
		Height	Discharge	Suction
2Z990	8" x 4 1/16"	12 1/2"	5/8"	1 1/2"
2Z991	8" x 4 1/16"	12 3/4"	5/8"	1 1/2"
2Z992	7 1/2" x 7 1/2"	13 1/4"	5/8"	1 1/2"
2Z993	8" x 4 1/16"	13 3/4"	5/8"	1 1/2"
2Z994	7 1/2" x 7 1/2"	13 1/4"	5/8"	1 1/2"
2Z995	7 1/2" x 7 1/2"	14 3/4"	5/8"	1 1/2"
2Z996	7 1/2" x 7 1/2"	15 3/4"	5/8"	1 1/2"

BtuH Capacity (*)	Mfr's. Model	Mounting Feet Type	Run Amps at		Capacitors		Stock No.	Retail		Shpg. Wt.	Potential Relay Where Required (\$) Stock No.
			208V	230V	Where Start Mfd./Volts	Where Run Mfd./Volts					
18,000	H20B193AB	Rectangular	10.8	10.1	83-108/250	25/370	2Z990	\$259.00	\$122.50	57	6X560
20,150	H20B203AB	Rectangular	11.4	10.7	88-108/250	25/370	2Z991	268.00	125.75	58	6X560
24,000 (†)	H20B243AB	Square	13.0	11.8	88-108/250	35/370	2Z992	277.00	136.54	62	6X560
24,000 (†)	H20B243AB	Rectangular	13.0	11.8	88-108/250	35/370	2Z993	277.00	136.54	62	6X560
26,400	H20B283AB	Square	15.2	14.8	88-108/250	35/370	2Z994	318.00	147.17	64	6X560
32,000	H20A323AB	Square	17.8	16.4	88-108/250	35/370	2Z995	334.00	152.03	64	6X560
40,000	H20A403AB	Square	21.2	21.6	72-88/330	35/440	2Z996	345.00	157.23	77	6X561

(*) At 95°F ambient, 115°F liquid, 95°F return gas, 45°F evaporator, 130°F condenser. (†) Operating voltage range is 197-253V.

(‡) For full description and prices of required capacitors, see Index under Capacitors, Elec. Mtr.

(§) For full description and price of required potential starting relay, see Index under Relays, Potential.

(†) These units are identical except for mounting feet; see dimension table.

AUTOMATIC CHANGE-OVER THERMOSTAT

Single Stage Heating, Single Stage Cooling. Mercury Switch Type

\$31.91

Provides automatic change-over between heating and air conditioning systems. For 24V single stage systems only. Separate spiral bimetal-actuated mercury switches for heating and cooling. Positive-detent switches for Heat-Off-Cool-Auto and fan Auto-On. Heat anticipator adjustable from 0.15 to 1A, fixed 0 to 1.5A cooling anticipation. Separate slide-lever adjustments for 50°-85°F heating range, 55° to 90°F cooling range. 3°F interlock between heating and cooling. 1/2° differential on heating, 1 1/2° on cooling. Mercury switches rated 1A @ 24VAC on heating, 1.5A @ 24VAC on cooling. No sub-base required, easily installed, built-in bubble level. Gold tone dial, beige and gray case. 3 1/8" H x 4 3/4" W x 2" D. Shpg. wt. 12 oz.

No. 2E397. Thermostat. Retail \$63.82. Each.....\$31.91



For AIR CONDITIONING and REFRIGERATION

SUNDSTRAND COMPRESSOR CAPACITY COMPARISON GUIDE

Lists Our Stock Nos. for Units with Capacity Comparable to Original Equipment
For Refrigerant-22 High Temperature Applications Only

Table below lists our Stock Nos. for replacement compressors with capacity comparable to original equipment compressors.

TO USE GUIDE: Find name of manufacturer of original equipment compressor. Under heading for that manufacturer, find model number of original unit. Number to right of original-unit model number is our Stock No. for new unit of comparable capacity. If two new-unit Stock Nos. are listed, both units have capacity comparable to that of original unit; however, other specifications of one or both may be different from those of original unit. Check for new unit compatibility as follows:

1. Compare dimensions in table on facing page, in addition to tubing and electrical connection locations, with those of existing compressor to determine if unit will fit.
2. Compare original potential relay electrical specifications with required relay data to determine if replacement is required. See Index under Relays, Potential for listed stock number.
3. Compare original capacitor electrical data with specifications on facing page to determine if replacement is required.

COPELAND		HUPP BORG-WARNER AMERICOLD		SUNDSTRAND		TECUMSEH	
Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.
RJ4-0175-PAV	2Z990	CH 400TA	2Z990	H20B193AB	2Z990	AH 24P12	2Z992
RL4-0175-PFV	2Z990	CH 420TA	2Z990	H20B203AB	2Z991		2Z993
RL4-0175-PAV	2Z990	CH 490TA	2Z992	H20B243AB	2Z992	AH 28Q13	2Z994
RL4-0175-PFV	2Z990		2Z993		2Z993	AH 40X15	2Z996
RA5-0200-PFV	2Z991	E 195	2Z990	H20B283AB	2Z994	AH 5520E	2Z990
		E 245	2Z992	H20A323AB	2Z995	AH 5524E	2Z992
RC4-0200-PFV	2Z992	E 275	2Z993	H20A403AB	2Z996		2Z993
	2Z993		2Z994			AH 5527E	2Z994
RC5-0200-PFV	2Z992	E 313	2Z995	TECUMSEH		AH 5540E	2Z996
	2Z993	E 400	2Z996	Manufacturer's Model No.	Grainger Stock No.	AJ 5518E	2Z990
		H490TA	2Z992	AB 5519E	2Z990	AJ 5519E	2Z990
RD4-0225-PFV	2Z994		2Z993	AB 5520E	2Z991	B 02A	2Z992
RD4-0225-PFB	2Z994	YCH 443TA	2Z990				2Z993
			2Z992	AB 5524E	2Z992	B 21U18	2Z992
RB4-0300-PFV	2Z996	YCH 540TA	2Z993		2Z993		2Z993
RB2-4-0300-PFV	2Z996	YCH 607TA	2Z994	AH 20L12	2Z990	B 74T16	2Z990
						CL 32ZA14	2Z996

COMPACT THERMOSTATIC EXPANSION VALVES

Wide Range Type. 1/4 to 2 Tons R-12 Capacity, 1 1/2 to 3 Tons R-22 Capacity

NEW

\$12.75

2 1/2" long valves designed for replacement use in systems where space is limited and conventional size valves will not fit.

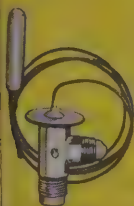
They maintain highly accurate control over a wide variation in evaporator load, allowing use in a variety of systems. This feature minimizes inventory and reduces service callbacks due to incorrect valve sizing. Also, the need for special ambient and head pressure controls is eliminated. Both valves maintain nearly constant refrigerant superheat (see definition below) over entire evaporator temperature range listed in table. Superheat is factory set at 8°F. Both valves are internally equalized and must be used with low pressure drop coils and distributors. Valves furnished with sensing bulb mounting hardware and inlet reducing nut for 1/4" O.D. tube. Shpg. wt. 1 1/2 lb. Instructions included.

VALVE SELECTION. No. 6X245 is a general purpose valve utilizing a liquid cross-charged power element which maintains control when it is colder than the remote sensing bulb. No. 6X246 valve: (A) Is designed primarily for small air conditioning systems. It has a gas charged power element with a maximum operating pressure of 100 PSI for element and capillary protection when installed in a furnace warm air plenum; (B) Has an internal bleed orifice which reduces compressor starting load by equalizing high and low pressures during off cycles; (C) Cannot be used with coils of less than 1 1/2 tons capacity as refrigerant flooding may occur.

Superheat: The number of temperature degrees higher than the saturation temperature (boiling point) of the refrigerant at the existing pressure.

90 DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

Parker



Refrigerant	Capacity in Tons (*)	Evaporator Temperature Range, °F	Capillary Length (ft)	SAE Flare Connections Inlet (in)	Outlet (in)	PSI Pressure Drop Across Valve	Mfr's. Model	Stock No.	Retail	Each
R-12	1/4 to 2	-20 to +50	36"	3/8"	1/2"	60-200	N-2FW	6X245	\$25.50	\$12.75
R-22	1 1/2 to 3	+30 to +55	36"	3/8"	1/2"	60-200	N-3H100B	6X246	25.50	12.75

ton is equivalent to 12,000 BtuH cooling. (†) Sensing bulb is 1/2" dia. x 2" L. Reducing type fitting.

SEE WARRANTY INFORMATION ON PAGE 684

PARKER THERMOSTATIC EXPANSION VALVE COMPARISON GUIDE

Lists Our Stock Nos. for Units with Specifications Comparable to Original Equipment

Table below lists our stock numbers for replacement expansion valves with capacity and performance similar to original equipment. However, not all valves with comparable capacity and performance have the same physical size or connection fittings as original valves.

TO USE GUIDE: Find name of manufacturer of original equipment expansion valve. Under heading for that manufacturer, and the refrigerant being used, find model number of original unit. Number to right of original unit model number is our Stock No. for new unit of comparable capacity and performance. Check for compatibility of dimensions and fittings as explained above. If two new-unit stock numbers are listed, both valves have capacity and performance comparable to that of original unit; however dimensions and fittings of one or both may be different from those of original unit.

VALVES USED WITH REFRIGERANT-12 SYSTEMS

ALCO		ALCO		SPORLAN		SPORLAN			
Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.		
AA1½FW AA1¼FW AA1FW HC1½FW HC1¼FW HC1FW HC1½FW HC2FW TCL25FW TCL50FW TCL100FW TCL200FW TCL250FW TCL300FW	6X237	HCE1½FW HCE2FW TCLE25FW TCLE50FW TCLE100FW TCLE200FW TCLE250FW TCLE300FW	6X239	FF-1½ FF-1¼ FF-1 NIF-1½ NIF-1¼ NIF-1 GF-1¼ GF-1½ GF-1 GF-1½ CF-1½ CF-2 CF-2½ CF-3	6X237	CFE-1½ CFE-2 CFE-2½ CFE-3	6X239		
AAE2½FW AAE3FW AAE4FW HCE½FW HCE¼FW HCE1FW		Note: TCL & TCLE with flare fittings only		SFE-½ SFE-1 SFE-1½ SFE-2 SFE-2½ SFE-3		6X241			
		TCLE25FW TCLE50FW TCLE100FW TCLE200FW TCLE250FW TCLE300FW		6X241				PARKER	
AAE2½FW AAE3FW AAE4FW HCE½FW HCE¼FW HCE1FW		HAE2½FW HAE3FW						N-2FW PC3FW PCE3FW PSE3FW	6X245 6X237 6X239 6X241
Note: TCLE & HAE with flare fittings only									

VALVES USED WITH REFRIGERANT-22 SYSTEMS

ALCO		ALCO		SPORLAN		SPORLAN	
Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.
AA1½HW AA1HW HC1½HW HC1HW HC1½HW HC2HW HC3HW TCL50HW TCL100HW TCL200HW TCL300HW TCL400HW TCL500HW	6X238	TCLE100HW TCLE200HW TCLE300HW TCLE400HW TCLE500HW	6X240	NIV-1½ NIV-1½ NIV-1 GV-1½ GV-1 GV-1½ GV-2½ CV-2 CV-3 CV-4 CV-5	6X238	SVE-1 SVE-1½ SVE-2 SVE-3 SVE-4 SVE-5	6X242 6X243
AAE4HW AAE5HW AAE7½HW HCE1½HW HCE1HW HCE1½HW HCE2HW HCE3HW TCL50HW		TCLE50HW TCLE100HW TCLE200HW TCLE300HW TCLE400HW TCLE500HW HAE4HW HAE5HW		6X242 6X243		GVE-1 GVE-1½ GVE-2 GVE-3 GVE-1½ CVE-2 CVE-3 CVE-4 CVE-5	SVE-8 PVE-8 PVE-10
		TCLE700HW TCLE900HW TCLE1000HW HAE7½HW	6X244				PARKER
							N-3H100B PC5HW100 PCE5HW100 PSE5HW100 PSE10HW100
				(*) ¾ x 5/8" connections. (†) ½ x ¾" connections.			

REMOTE BULB SPDT THERMOSTAT

For Heating or Cooling Applications. —30°F to +90°F Control Range

\$16.41

Versatile control for heating, cooling or refrigeration systems where sensing element must be remote from switching mechanism. Can also be used as a change-over control or as an outdoor thermostat. Has 5½" L sensing bulb with 8 ft. L capillary. Bulb can be located in any medium which is non-corrosive to copper. Heavy-duty construction. Wide control range, adjustable from —30°F to +90°F. Adjustable 4½° to 40°F differential. SPDT switch rated inductive 7.4A @ 120VAC and 3.7A @ 240VAC. UL listed. Bulb mounting bracket supplied. Gray case. 5½" H x 2½" W x 2½" D. Shpg. wt. 1½ lbs No. 2E399. Thermostat. Retail \$32.82. Each.....

\$16.41



AIR CONDITIONING & REFRIGERATION SUPPLIES

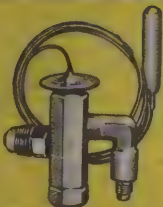
WIDE RANGE THERMOSTATIC EXPANSION VALVES

Parker

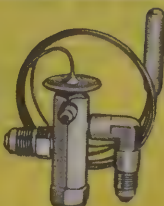
Constant Superheat from -40 to $+50^{\circ}\text{F}$. $1/4$ to 10 Tons Refrigerant Capacity
Only 8 Models Handle over 90% of Standard Replacement Requirements

NEW

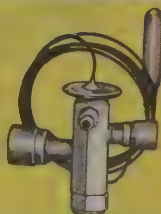
A
INTERNAL
EQUALIZER
SAE FLARE
\$18.50
Nos.
6X237
6X238



B
EXTERNAL
EQUALIZER
SAE FLARE
\$22.00
Nos.
6X239
6X240



C
EXTERNAL
EQUALIZER
SWEAT
\$24.50
Nos.
6X241
6X242
6X243
6X244



Parker thermostatic expansion valves reduce inventory and minimize call-backs because they can be applied to a wider range of systems than conventional valves, thus simplifying selection of the proper valve for given system specifications. These valves maintain accurate control over a wide variation in evaporator load thereby minimizing hunting, flood-back and coil starving problems associated with system load changes. In most cases, the need for special ambient or load pressure controls is eliminated. High or low load is accurately metered through a large orifice without being affected by high-side pressure. The cross-charged power element maintains nearly constant refrigerant superheat (see definition below, right) characteristics over a -40 to $+50^{\circ}\text{F}$ evaporator temperature range. Nominal factory superheat setting on all valves is 10°F . The power element has an all-purpose, nearly constant superheat charge and operates the valve with a small change in refrigerant superheat. It also provides control when the power element is colder than the remote bulb.

VALVE SELECTION: In general, if evaporator pressure drop is greater than 3 PSI, an externally equalized valve should be used. Also, an externally equalized valve must be used on evaporators which employ pressure drop type refrigerant distributors. Nos. 6X237, 6X238, 6X239 and 6X240 have SAE flare fitting connections plus an inlet reducing nut for $1/4"$ OD connecting tube. These models are also tin plated for use in refrigeration equipment where the valve is exposed to foodstuffs, ice, etc. All valves include bulb mounting hardware. All valves, except those with sweat connections, have inlet screens. See comparison guide, facing page. $1 1/4$ lbs.

Superheat: The number of temperature degrees higher than the saturation temperature (boiling point) of the refrigerant at the existing pressure.

90 DAY LIMITED WARRANTY
See Limited Warranty Policy in Index.

REFRIGERANT CAPACITY IN TONS FOR THERMOSTATIC EXPANSION VALVES (*)

REFRIGERANT EXTENSION VALVES ()													
Nominal Ton Range (°)	EVAPORATOR TEMPERATURE												Stock No.
	+40°F			+20°F			-10°F			-40°F			
	PSI PRESSURE DROP ACROSS VALVE												
	60	125	175	60	125	175	60	125	175	60	125	175	
2 1/4-3	3.00	3.55	3.64	2.84	3.31	3.37	2.59	2.96	2.97	2.35	2.62	2.61	6X237 6X239 6X241
2 1/4-5	4.21	5.32	5.72	4.22	5.28	5.65	3.93	4.84	5.14	3.46	4.16	4.42	6X238 6X240 6X242 6X243
1/4-10	8.42	10.64	11.44	8.44	10.56	11.30	7.86	9.68	10.28	6.92	8.34	8.84	6X244

Per ARI Standard 750-70; at 10°F liquid subcooling (subcooling is the number of temperature degrees below the condensing temperature for a given pressure). 1 ton is equivalent to 12,000 BtuH cooling.

SPECIFICATIONS AND PRICES FOR THERMOSTATIC EXPANSION VALVES

Stock No.	Fig- ure	Mfr's. Model	Refrigerant	Equalizer Type (†)	Connection Type	Connection Size		Capillary Length (‡)	Retail	Each
						Inlet	Outlet			
237	A	PC3FW	R-12	Internal	SAE Flare (†)	$3/8"$	$1/2"$	36"	\$37.00	\$18.50
239	B	PCE3FW	R-12	External	SAE Flare (†)	$3/8"$	$1/2"$	60	44.00	22.00
241	C	PSE3FW	R-12	External	Sweat	$3/8$ ID	$1/2$ ID	60	49.00	24.50
238 (‡)	A	PC5HW100	R-22	Internal	SAE Flare (†)	$3/8"$	$1/2"$	36	37.00	18.50
240 (‡)	B	PCE5HW100	R-22	External	SAE Flare (†)	$3/8"$	$1/2"$	60	44.00	22.00
242 (‡)	C	PSE5HW100	R-22	External	Sweat	$3/8$ ID	$1/2$ ID	60	49.00	24.50
243 (‡)	C	PSE5HW100	R-22	External	Sweat	$1/2$ ID	$3/4$ ID	60	49.00	24.50
244 (‡)	C	PSE10HW100	R-22	External	Sweat	$3/8$ ID	$3/8$ ID	60	49.00	24.50

These valves have maximum operating pressure of 100 PSI for diaphragm and capillary protection if valve is located in furnace warm air plenum. (†) All external equalizer connections are $1/4"$ SAE. (‡) Reducing type fitting. (§) Sensing bulb is $1/2"$ dia. x $2"$ L.

SEE WARRANTY INFORMATION ON PAGE 684

GE 51 FRAME UNIT-BEARING FAN MOTORS

1/350 to 1/47 HP. 1550 & 1000 RPM. 115V, 60 Hz. Totally Enclosed, Pre-Oiled



No. 3M394
\$9.30

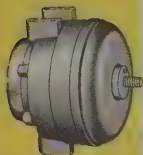
Used for hundreds of fan applications, refrigeration, evaporative coolers, etc. using 8, 9 or 10" blades. Totally enclosed, all-angle operation. Unit bearing runs years without re-oiling. 1550 and 1000 RPM, 115 and 230V, 60 Hz. 2, 2½, 4 & 6 watt models are impedance protected, and have three No. 8-36 tapped mounting holes, 2½" OC. 9 and 16 watt models have thermal protection and same mounting holes as 4 and 6 watt plus rigid cast feet for mounting. 12" leads on all except 16 watt models, which have 24" leads. Cast iron housing, black finish. Recognized by UL under the Motor Component Recognition Program. GE brand.

HP	Volts 60 Hz	GE Rated Watts	Shaft Type	Long	COUNTERCLOCKWISE ROTATION Facing end opposite shaft. (Blows air away from motor)			CLOCKWISE ROTATION Facing end opposite shaft. (Pulls air toward motor)			Shpg. Wt.
					Stock No.	GE 5KSP51	Each	Stock No.	GE 5KSP51	Each	
1/350	115	2	¼-20 Thread	2½"	—	—	—	3M394	AZL826	\$9.30	2
1/300*	115	2.5	¼-20 Thread	2½"	—	—	—	3M472	AL611	10.89	2
1/125	115	4	¼-20 Thread	2½"	3M275	AL513	\$10.00	3M274	AL511	10.00	2
1/100	115	6	¼-20 Thread	2½"	3M269	CL502	11.21	3M270	CL501	11.21	3
1/60	115	9	¼-20 Thread	2½"	3M284	ECL553T	11.48	3M285	ECL551T	11.48	3
1/60	230	9	¼-20 Thread	1.32	3M283	ECL554T	12.11	3M286	ECL552T	12.11	3
1/47	115	16	¼-20 Thread	1.32	3M475	GL583	14.19	3M473	GL581	14.19	4
1/47	230	16	¼-20 Thread	1.32	3M476	GL584	14.89	3M474	GL582	14.89	4

(*) 1000 RPM. 4-pole design for replacing 6-pole motors.

MORRILL UNIT BEARING FAN MOTORS

1/125 to 1/60 HP, 1450 RPM, 60 Hz, Totally Enclosed, Pre-Oiled



\$6.70
1/125 HP
Lots 10

Morrill unit-bearing motors are universally used for fan applications, refrigeration, evaporative coolers, portable and wall heaters, dehumidifiers, humidifiers and electrostatic air filters, using 5 to 10" blades. Totally enclosed. Horizontal or vertical, shaft-up mount only. Impedance protected, except 9 watt models which are thermal protected. 1450 RPM, 115 or 230V, 60 Hz, continuous duty, for air-over applications. Die cast aluminum housing. Three No. 8-36 mounting holes, 2½" OC, and rigid cast feet. 22" long leads. Kit equipped with neoprene silencers and speed nut for mounting fan on hub, and 8-36 motor mounting screws supplied with each motor. Interchangeable (mounting dimensions) with competition's 51 frame unit bearing motors. Black finish. Fan blades available—see Index.

HP	Rated Volts 60 Hz	Output Watts	—Shaft— Type	Lg.	COUNTERCLOCKWISE ROTATION Facing End Opposite Shaft				CLOCKWISE ROTATION Facing End Opposite Shaft				Shpg. Wt.
					Morrill No. SP-	Stock No.	Each	Lots 10	Morrill No. SP-	Stock No.	Each	Lots 10	
1/125	115	5W	¼-20 Thd.	2½"	B5HCEMR1	3M331	\$7.27	\$6.70	B5HCEM1	3M332	\$7.27	\$6.70	1
1/100	115	6W	¼-20 Thd.	2½"	B6HCEMR1	3M333	7.39	6.80	B6HCEM1	3M334	7.39	6.80	2
1/60	115	9W	¼-20 Thd.	2½"	B9HCEMR1	3M335	7.90	7.28	B9HCEM1	3M336	7.90	7.28	2
1/60	230	9W	¼-20 Thd.	2½"	B9HCEMR2	3M337	8.66	7.97	B9HCEM2	3M338	8.66	7.97	2

REFRIGERATOR & FREEZER FAN REPLACEMENT GE MOTORS

1/125 HP, C-Frame. Single Coil Shaded Pole Type. 3000 RPM, 115V, 60 Hz Impedance Protected



\$7.74 General Electric 33-frame (C-frame) motors with adapter kits for replacing original equipment GE evaporator fan motors in domestic self-defrosting refrigerators and freezers. Models listed below replace over 90 original equipment motor types. Replacement guide included with each motor lists models it replaces, tells how to modify motor to fit using clip-on oil covers and mounting hardware furnished. Fan blade not included. 1/125 HP, shaded pole, 3000 RPM, 115V, 60 Hz, 0.35 full-load amps, continuous duty. Electrically enclosed. Impedance protected. Two 14" leads. CSA approved. General Electric brand.

HP	Shaft Dia.	Long	Full- Load Amps	CLOCKWISE ROTATION As seen facing end opposite shaft (Blows air away from motor)			COUNTERCLOCKWISE ROTATION As seen facing end opposite shaft (Blows air toward motor)			Shpg. Wt.
				Stock No.	GE Model 5KSB33-	Each	Stock No.	GE Model 5KSB33-	Each	
1/125	⅝"	2½"	0.35	3M351	ASE988	\$7.74	3M352	ASE987	\$7.74	1
1/125	⅝"	2½"	0.35	3M353	ASE986	7.74	3M354	ASE985	7.74	1

All motors on this page recognized by UL under the Motor Component Recognition Program.

AIR CONDITIONING & REFRIGERATION SUPPLIES

Parker SUCTION LINE FILTER/DRYERS

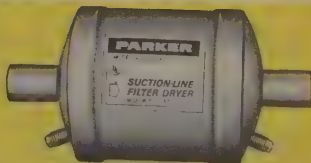
For Installation After Compressor Burn-Out. Cleans and Dehydrates Entire System
Schraeder-Type Inlet and Outlet Pressure Taps. Large Filtration Area and Short Length

\$13.48

No. 6X516



Nos. 6X516, 6X517



Nos. 6X518 thru 6X521

Parker suction line filter/dryers are designed for installation in air conditioning or refrigeration systems when replacing a burned-out compressor. They protect the new compressor from any gum, sludge, organic or inorganic acids and other harmful contaminants which may not have been removed during system cleaning. Units feature large diameter steel shell and solid core filter/dryer with refrigerant diffuser which enables them to handle high suction gas velocity with low pressure drop. Large desiccant volume assures effective, high-capacity drying. Short shell length facilitates installation in confined areas and requires minimum re-

moval of suction line. Pressure drop access valves with 1/4" SAE flare connections are provided on inlet and outlet to simplify pressure drop measurement. Valve stems are packed separately to prevent heat damage during installation; insertion tool included. For low temperature (below 10°F) applications, filter/dryer must be installed vertically, with downward flow, to prevent unit from acting as an accumulator and thereby reducing effective compressor oil level. In all other installations, unit may be installed in any position. Two or more filters may be installed in parallel for large systems. UL listed for refrigerants and capacities shown.

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

REFRIGERANT FLOW IN TONS FOR SUCTION LINE FILTER/DRYERS(†)

R-12, Evaporator Temperature/Pressure Drop					R-22, Evaporator Temperature/Pressure Drop					R-502, Evaporator Temperature/Pressure Drop					Stock No.
-40°F 0 PSI	+20°F 1.5 PSI	0°F 1.0 PSI	-20°F 0.5 PSI	+40°F 3.0 PSI	+20°F 2.0 PSI	0°F 1.5 PSI	-20°F 1.0 PSI	-40°F 0.5 PSI	+40°F 3.0 PSI	+20°F 2.0 PSI	0°F 1.5 PSI	-20°F 1.0 PSI	-40°F 0.5 PSI		
0.6	0.5	0.3	0.2	1.1	0.8	0.6	0.4	0.2	0.9	0.6	0.4	0.3	0.2	6X516	
1.3	1.0	0.6	0.4	2.3	1.6	1.1	0.7	0.4	1.8	1.2	0.9	0.6	0.3	6X517	
2.5	2.0	1.5	1.0	5.0	3.0	2.5	1.5	1.0	4.0	2.5	2.0	1.0	1.0	6X518	
4.0	3.0	2.0	1.0	7.0	4.5	3.0	2.0	1.0	5.0	3.5	2.5	1.5	1.0	6X519	
6.0	4.0	3.0	1.5	10.0	8.0	5.0	3.0	2.0	8.0	5.0	4.0	2.5	1.5	6X520	
7.0	5.0	3.5	2.0	13.0	9.0	6.0	4.0	2.0	10.0	7.0	5.0	3.0	2.0	6X521	

SPECIFICATIONS AND PRICES FOR SUCTION LINE FILTER/DRYERS

Stock No.	Mfr's. Model	Desiccant Volume Cubic In.	Filter Area Square In.	Water Capacity in Drops @ 65°F Suction (†)			Connection Size and Type	Overall Length	Tubing Cutout Length	Shell Dia.	Retail Each		Shpg. Wt.
				R-12	R-22	R-502							
516	SLD8-3V	8.0	17.25	200	168	185	3/8" SAE Flare	5 1/2"	—	3"	\$26.96	\$13.48	2
517	SLD8-4V	8.0	17.25	200	168	185	1/2" SAE Flare	5 3/4"	—	3	26.96	13.48	2
518	SLD13-6SV	13.5	26.00	338	284	312	3/8" Sweat	5 5/8"	3 3/4"	4	32.30	16.15	2 1/4
519	SLD13-6SV	13.5	26.00	338	284	312	3/4" Sweat	5 1/2"	3 3/4"	4	37.00	18.50	2 1/4
520	SLD27-7SV	27.0	49.00	676	568	624	1/2" Sweat	7 1/2"	6	4	37.00	18.50	3 1/4
521	SLD27-9SV	27.0	49.00	676	568	624	1 1/8" Sweat	7 1/8"	5 1/8"	4	42.90	21.45	3 1/4

1 ton is equivalent to 12,000 BtuH cooling. (†) 20 drops = 1 gram = 1 cc.

Parker REPLACEABLE FILTER/ DRYER CORE

For Liquid Line Filter/Dryers Using Replaceable Desiccant Cores. 48 Cubic Inch Dryer Core

\$5.60



Parker high-capacity filter/dryer cores can be used in most 3/4" O.D. flanged shells. Core features low pressure drop with maximum moisture and acid capacity. Will replace cores of most other manufacturers. May be used in single-core or multiple core dryer shells. Shipped in hermetically sealed, key-opened container, complete with three gaskets. 1 3/4" I.D., 3 3/4" O.D., 5 1/2" long. Shpg. wt. 2 1/4 lbs. (PCW-48.)

No. 6X522. Filter/Dryer Core. Retail \$11.20. Each.....\$5.60

WATER CAPACITY IN DROPS, PER ARI STANDARD 710(§)

R-12 @ 15 PPM(*)		R-22 @ 80 PPM(*)		R-502 @ 30 PPM(*)	
75°F	125°F	75°F	125°F	75°F	125°F
950	575	620	350	670	400

(*) PPM — parts per million. (§) 20 drops = 1 gram = 1 cc.

SEE WARRANTY INFORMATION ON PAGE 684

AIR CONDITIONING & REFRIGERATION SUPPLIES

—Parker LIQUID LINE FILTER/DRYERS

100% Molecular Sieve Desiccant. Nickel Plated SAE Flare Connection Fittings
UL Listed, ARI Rated. High Dehydration Capacity, Low Pressure Drop. Welded Shell

\$3.90 No. 6X505



Parker liquid line filter/dryers provide controlled filtration through a fluted ceramic filter core which traps contaminants down to 20 microns in size. Chemically inert, bead-type desiccant assures efficient water and acid removal. Spring loading prevents contaminant bypass. All models are UL listed for use with R-12, R-22, R-500, R-502 and other halocarbon refrigerants, have 2500 psig ultimate strength and are rated in accordance with ARI standard 710. The design of these units permits maximum single direction refrigerant flow, resulting in longer life, low pressure drop and trouble-free operation. Heavy-gauge welded steel shell is finished with vinyl paint which is resistant to 400 hour salt spray test. Flare fittings are nickel plated for corrosion resistance. Supplied with moisture-proof caps on inlet and outlet to assure factory-fresh dryness.

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

NOMINAL SYSTEM CAPACITY IN TONS FOR LIQUID LINE FILTERS/DRYERS(*)

REFRIGERANT-12			REFRIGERANT-22			REFRIGERANT-502			Stock No.
Commercial Low-Temp. Refrigeration Equipment	OEM New Self-Contained	Replacement or Built-Up New System	Commercial Low-Temp. Refrigeration Equipment	OEM New Self-Contained	Replacement or Built-Up New System	Commercial Low-Temp. Refrigeration Equipment	OEM New Self-Contained	Replacement or Built-Up New System	
1/4	3/4	1/2	1/4	1	3/4	1/4	3/4	1/2	6X505
1/3	1	3/4	1/2	1 1/2	1	1/3	1	3/4	6X506
1/3	2	1 1/2	1	3	2 1/2	1/3	2	1 1/2	6X507
1/2	1	3/4	3/4	1 1/2	1 1/2	1/2	1	3/4	6X508
1	3	2	2	5	3	1	3	2	6X509
1	4	3	3	7 1/2	5	1	4	3	6X510
2	4	3	3	5	4	2	4	3	6X511
2	5	3	4	7 1/2	5	2	5	3	6X512
3	4	3	4	5	5	2	4	3	6X513
3	7 1/2	5	5	10	7 1/2	3	7 1/2	5	6X514
5	10	7 1/2	7 1/2	15	10	5	10	7 1/2	6X515

WATER AND REFRIGERANT FLOW CAPACITIES FOR LIQUID LINE FILTER/DRYERS

Stock No.	REFRIGERANT-12 @ 15 PPM (†)			REFRIGERANT-22 @ 60 PPM (†)			REFRIGERANT-502 @ 30 PPM (†)		
	Water Capacity in Drops (‡)		Flow Capacity Tons(*) (§)	Water Capacity in Drops (‡)		Flow Capacity Tons(*) (§)	Water Capacity in Drops (‡)		Flow Capacity Tons(*) (§)
	75°F	125°F		75°F	125°F		75°F	125°F	
6X505	33.8	30.6	1.8	31.0	28.8	2.4	29.7	27.0	1.6
6X506	71.5	64.7	2.0	65.6	60.8	2.6	62.7	57.0	1.7
6X507	71.5	64.7	4.2	65.6	60.8	5.5	62.7	57.0	3.7
6X508	118.5	105.5	2.0	107.0	99.1	2.6	102.0	93.0	1.8
6X509	116.5	105.5	4.7	107.0	99.1	6.2	102.0	93.0	4.1
6X510	116.5	105.5	7.5	107.0	99.1	9.8	102.0	93.0	6.6
6X511	206.0	187.0	5.6	190.0	176.0	7.5	181.0	165.0	4.9
6X512	206.0	187.0	9.5	190.0	176.0	12.7	181.0	165.0	7.8
6X513	416.0	377.0	5.7	383.0	355.0	7.7	365.0	333.0	5.0
6X514	416.0	377.0	11.3	383.0	355.0	15.1	365.0	333.0	9.8
6X515	416.0	377.0	15.5	383.0	355.0	20.7	365.0	333.0	13.5

DIMENSIONS AND PRICES FOR LIQUID LINE FILTER/DRYERS

Stock No.	Mfr's. Model	Desiccant Volume Cubic In.	Filter Area Square In.	SAE Flare Connection Size	Overall Length	Shell Dia.	Retail	Each	Shpg. Wt.
6X505	032	3	10	1 1/4"	4 1/2"	2 11/16"	\$ 7.80	\$ 3.90	5 oz.
6X506	052	5	17	1 1/2"	4 3/4"	2 11/16"	9.70	4.85	1 lb.
6X507	053	5	17	1 3/8"	4 3/4"	2 11/16"	9.70	4.85	1 lb.
6X508	082	8	27	1 3/4"	5 5/8"	2 11/16"	10.28	5.14	1 1/4 lb.
6X509	083	8	27	1 3/8"	6 1/4"	2 11/16"	10.28	5.14	1 1/4 lb.
6X510	084	8	27	1 3/8"	6 1/4"	2 11/16"	11.90	5.95	1 1/4 lb.
6X511	163	16	34	1 3/8"	6 3/4"	3	13.82	6.91	1 1/2 lb.
6X512	164	16	34	1 3/8"	7	3	14.58	7.29	1 1/2 lb.
6X513	303	30	61	1 3/8"	9 11/16"	3	23.36	11.68	2 1/4 lb.
6X514	304	30	61	1 3/8"	9 11/16"	3	23.36	11.68	2 1/4 lb.
6X515	305	30	61	1 3/8"	10 3/4"	3	23.74	11.87	2 1/4 lb.

(*) 1 ton is equivalent to 12,000 BtuH cooling. (†) PPM = Parts per million.

(‡) 20 drops = 1 gram = 1 cc. (§) At 2 PSI pressure drop.

AIR CONDITIONING & REFRIGERATION SUPPLIES

Parker LIQUID LINE SERVICE DRYERS

Spun Copper Construction. For OEM Replacement and General Field Service Work
100% Molecular Sieve Desiccant. Factory Sealed to Assure Dryness and Purity

\$1.14

No. 6X528
Lots 12



A COMPACT DRYER, No. 6X523

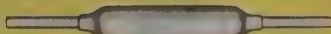


B GENERAL PURPOSE DRYER, No. 6X525

C HEAVY-DUTY DRYER, No. 6X526



D CHARGING VALVE DRYER, No. 6X524



E ECONOMY DRYERS, Nos. 6X527, 6X528

COMPACT DRYER. For limited-space application where maximum drying capacity is required. Single direction flow. Incorporates 150 mesh, fine wire cloth filter. 1" O.D. shell with solid brass, 1/4" SAE flare fittings. Use with hermetic or open type systems. UL recognized for R-12 up to 1/3 ton and R-22 up to 1/2 ton. Rated per ARI Standard 710. Shpg. wt. 4 oz.
No. 6X523. Dryer. Retail \$5.30. Each.....\$2.65

GENERAL PURPOSE DRYER. Has large capacity inlet filter. Handles severe moisture and dirt problems. Single direction flow. Use with hermetic or open systems. 3/4" O.D. shell with copper end tubes silver-brazed in place. Tubes are easily cut, swaged, flared, pinched or bent for on-the-job adaptation. Grooved ends for easy break-off. UL recognized for R-12 up to 1/3 ton and R-22 up to 1/2 ton. Rated per ARI Standard 710. Shpg. wt. 4 oz.
No. 6X525. Dryer. Retail \$3.08. Each.....\$1.54

HEAVY-DUTY DRYER. High-capacity dryer eliminates "freeze-up" hazards caused by foreign materials. Four separate filter areas—over square inches—provide maximum filtration of acids, dirt and sludge. Double-screened inlet, single direction flow. Use with hermetic or open systems. 1 1/8" O.D., heavy-wall shell handles high working pressures. Inlet tube fits 5/16" O.D. 1/4" I.D. Tubes are easily cut, swaged, flared, pinched or bent for on-the-job adaptation. Grooved ends for easy break-off. UL recognized for R-12 up to 1 ton and R-22 up to 2 tons. 8 oz.
No. 6X526. Dryer. Retail \$7.50. Each.....\$3.25

CHARGING VALVE DRYER. High-capacity dryer with built-in Schraeder-type service valve for evacuating and charging system. May be installed on systems not originally equipped with high-side valves. Valve has sealing cap. Single direction flow. 1/4" O.D. inlet tube. Outlet tube spun down to accommodate capillary. Tubes are easily cut, swaged, flared, pinched or bent for on-the-job adaptation. Grooved ends for easy break-off. UL recognized for R-12 up to 1 ton and R-22 up to 2 tons. Valve tube can be bent if necessary. Shpg. wt. 5 oz.
No. 6X524. Dryer. Retail \$6.30. Each.....\$3.15

ECONOMY DRYERS. Low-cost, general service dryers with high capacity and quality construction. No. 6X528 has dual direction flow capability, thus minimizing installation mistakes on jobs where access is limited and determination of flow direction is difficult or time consuming. No. 6X527 is single direction flow and has large-capacity inlet filter. 1/4" O.D. inlet and outlet tubes can be easily cut, swaged, flared, pinched or bent for on-the-job adaptation. Use with R-12 up to 1/3 ton and R-22 up to 1/2 ton. No. 6X527 dryer sold only in skin-packs of six; priced each.

No. 6X528. Dual Direction Dryer. Shpg. wt. 4 oz. Retail \$2.52. Each \$1.26; lots 12.....\$1.14

No. 6X527. Single Direction Dryer. Shpg. wt. of six; 1 lb. Retail \$3.14. Each, lots 6.....\$1.44

90-DAY LIMITED WARRANTY.

See Limited Warranty Policy in Index.

SELECTION GUIDE FOR LIQUID LINE SERVICE DRYERS

Type	Figure	Mfr's. Model	Capacity in Tons(*)		Water Capacity In Drops(†)		Connecting Tube Size		Shell Dia.	Over-all Lgth.	Stock No.	
			R-12	R-22	75°F	125°F	75°F	125°F				—Inlet— OD ID
compact eneral Purpose heavy-Duty	A	C500	1/3	1/2	33.8	30.6	31.0	28.8	1 1/4" SAE	1 1/4" SAE	1" 4"	6X523
	B	Little Giant	1/3	1/2	37.5	34.1	34.5	32.0	1 1/4" 3/8"	1 1/4" 3/8" & 3/16"	9 1/2"	6X525
	C	Hercules	1	2	112.5	102.5	103.5	95.8	3/8" 1/2"	3/8" & 1/16" & 1/4"	10 1/2"	6X526
harging Valve	D	619	1/3	1/2	37.5	34.1	34.5	32.0	1/4" 3/8"	3/16" & 1/4" 3/32" & 1/8"	3/4" 10 1/4"	6X524
economy, Single Direction	E	MMS-100	1/3	1/2	37.5	34.1	34.5	32.0	1/4" 3/8"	1/4" 3/8"	3/4" 7 1/2"	6X527
economy, Dual Direction	E	MMS-80	1/3	1/2	37.5	34.1	34.5	32.0	1/4" 3/8"	1/4" 3/8"	3/4" 7 1/2"	6X528

1 ton is equivalent to 12,000 BtuH cooling. (†) 20 drops = 1 gram = 1 cc.

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

AIR CONDITIONING & REFRIGERATION SUPPLIES

NEW

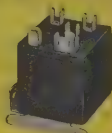
GE POTENTIAL-TYPE MOTOR STARTING RELAYS

General Electric Series 3ARR3. All Models Rated 35 Amps, on 60 Hz Power
Single Pole, Normally Closed Contacts. Mounting Brackets Included. All-Position Mounting



\$4.96

No. 6X549



Single-pole, normally closed, double-break relays for starting single phase capacitor-type motors in air conditioning and refrigeration hermetic compressors, waste disposers, submersible pumps, etc. Replace relays of most other manufacturers; see comparison guide on facing page. All units have break-off-tab type mounting brackets for most replacement applications. Installer simply breaks off tabs not required, at score marks, using pliers. May be installed in any position. Large, silver-cadmium oxide contacts. Terminals are quick connect push-on type. Adapters available to convert push-on terminals to screw type; see listing below.

Relay coil is wired in parallel with the start winding and senses the changing voltage in the start winding which increases as the motor comes up to speed. Relay contacts are in series with the start capacitor and the start winding. When the relay operates, in response to the rising start winding voltage, the contacts open, disconnecting the start capacitor. If a run capacitor is used, it remains connected to the start winding. UL and CSA listed. Detailed instructions and replacement guide included with each relay. 1 3/4" H x 2 W x 1 3/4" D, not including terminals or brackets. Shpg. Wt. 7 Oz.

—Coil Volts, 60 Hz—		Mfr's. Model	Stock No.	Retail	Each
Pick-Up	Drop-out				
139-153	55-20	3ARR3-FJ2EA3	6X549	\$6.51	\$4.96
166-180	100-70	3ARR3-FJ3BR3	6X550	6.74	5.12
185-200	105-40	3ARR3-FJ10EE3	6X551	6.83	5.18
222-235	90-40	3ARR3-FJ3EH3	6X552	7.38	5.62
222-235	121-60	3ARR3-FJ6EH2	6X553	7.38	5.62
260-275	100-50	3ARR3-FJ3EK3	6X554	7.38	5.62
260-275	135-60	3ARR3-FJ4EK2	6X555	7.38	5.62
285-305	100-50	3ARR3-FJ3EL3	6X556	7.87	5.99
295-315	135-60	3ARR3-FJ4EM2	6X557	7.87	5.99
299-327	100-50	3ARR3-FJ3EM3	6X558	7.87	5.99
332-356	135-60	3ARR3-FJ4EN3	6X559	7.87	5.99
162-175	90-40	3ARR3-FJ3P3	6X560	6.74	5.12
189-205	130-60	3ARR3-FJ25S3	6X561	6.83	5.18

NEW

GE 24, 120 and 240V MAGNETIC LINE RELAYS

General Electric 3ARR4 Series. Universal Mounting Bracket. Heavy-Duty Construction



\$4.41

No. 6X562



Single pole, double throw (SPDT), snap acting relays widely used for remote control of air conditioning and heating systems. Can also be used to control fans, blowers, motors up to 1 1/2 HP, tools and other electrical devices within ratings. Replace relays of most other manufacturers; see comparison guide on facing page. All units have break-off-tab type mounting brackets for most replacement applications. Installer simply breaks off tabs not required, at score marks, using pliers. May be installed in any position. Rugged construction for use under adverse conditions. Large, silver-cadmium oxide contacts. Terminals are quick connect push-on type. Adapters available to convert push-on terminals to screw type; see listing below. UL and CSA listed. Detailed instructions and replacement guide included with each relay. 1 3/4" H x 2 W x 1 3/4" D, not including terminals or brackets. Shpg. Wt. 7 oz.

Coil Volts 60 Hz	CONTACT RATINGS, AMPS @ 277 VAC			Mfr's. Model	Stock No.	Retail	Each
	Full Load and Resistive	—Locked Rotor—					
		Normally Open Contacts	Normally Closed Contacts				
24	18	55	35	3ARR4-CR32	6X562	\$6.39	\$4.41
120	18	55	35	3ARR4-CR7	6X563	6.79	4.69
240	18	55	35	3ARR4-CR5	6X564	7.19	4.96



1/4" SCREW TERMINALS. Convert 1/4" push-on tab terminals of all General Electric relays and contactors listed herein to screw-type terminals. Includes 6-32 screw. 2 3/4" long. Sold only in boxes of 100. Shpg. wt. 7 oz.

No. 6X578. Box of 100 screw terminals. Retail \$7.29. Each \$5.83; Lots 6.....\$5.10

GRAINGER PAYS FREIGHT ON SHIPMENTS OF 300 LBS. AND OVER

On all merchandise listed herein, unless otherwise stated. See Sales Policy in Index for full details. Shipments from nearest Grainger Sales Office/Warehouse, routing our choice.

AIR CONDITIONING & REFRIGERATION SUPPLIES

NEW

GE MAGNETIC LINE CONTACTORS

24, 120 and 240 VAC Coils. General Electric 3ARR28 and 3ARR8 series Heavy-Duty Single-Pole-Single-Throw (SPST) and Double-Pole-Single-Throw (DPST) Types

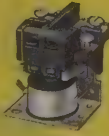


SPST



\$6.20

SPST



DPST

Specially designed for long operating life in air conditioning, heating and ventilating control systems. Can also be used in other applications involving motor starting, heating element operation, power supply control, etc. Replace relays of most other manufacturers. Relays feature bounce-free, silver cadmium oxide contacts for minimum wear and maximum reliability. Universal mounting bracket, all-position mounting. Mounting base and armature have zinc-chromate finish for corrosion protection. Contact arm is alloy coated and all terminals are cadmium plated. All models have screw-type line and load terminals, except SPST models which have combination screw and push-on terminals. Coil terminals are push-on type; adapters to connect to screw-type are listed on facing page. UL and CSA listed.

RELAY SELECTION: Nos. 6X566, 6X567 and 6X568 replace all General Electric 3ARR8 and 3ARR9 series contactors. Nos. 6X572, 6X573 and 6X574 are designed for starting compressors or other components of central air conditioning systems where breaking of only one side of the line is required. These models have a permanent jumper connecting the other side of the line to the load. Detailed instructions and replacement guide included.

Contact Action	Coil Volts 80 Hz	CONTACT RATINGS, AMPS @ 277 VAC			Dimensions			Mfr's. Model	Stock No.	Retail	Each	Shpg. Wt.
		Full Load	Locked Rotor	Resistive	H	W	D					
SPST	24	30	150	30	2 1/2"	2 13/16"	2 1/4"	3ARR28-U4	6X574	\$8.73	\$6.20	12 oz.
	120	30	150	30	2 1/2"	2 13/16"	2 1/4"	3ARR28-U3	6X573	8.73	6.20	12
	240	30	150	30	2 1/2"	2 13/16"	2 1/4"	3ARR28-U2	6X572	8.73	6.20	12
DPST	24	30	125	30	2 1/2"	2 13/16"	2 19/64"	3ARR8-E4	6X568	13.09	9.31	7
	120	30	125	30	2 1/2"	2 13/16"	2 19/64"	3ARR8-E3	6X567	13.09	9.31	7
	240	30	125	30	2 1/2"	2 13/16"	2 19/64"	3ARR8-E2	6X566	13.09	9.31	7

GENERAL ELECTRIC RELAY and CONTACTOR COMPARISON GUIDE

Lists Our Stock Nos. for Units with Electrical Characteristics Comparable to Original Equipment

Table below lists our stock numbers for replacement relays and contactors comparable to original units. However, replacement units may vary somewhat in physical size, mounting method and type and location of terminals. Compare data of original device with the relay or contactor information listed herein to determine if replacement unit is suitable.

TO USE GUIDE: Find name of supplier of original relay or contactor. Under heading for that supplier, find part number of original unit. Number to right of original unit part number is our Stock No. for unit of comparable electrical characteristics. Check for compatibility.

GENERAL ELECTRIC		Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.	Manufacturer's Model No.	Grainger Stock No.
Manufacturer's Model No.	Grainger Stock No.	3ARR27U3	6X573	19002	6X549	90-6	6X558
3ARR3**2EA*	6X549	3ARR27U4	6X574	19003	6X554 & 6X555	90-7	6X550
3ARR3**3BR*	6X550	3ARR28U2	6X572	19004	6X550 & 6X560		
3ARR3**10EE*	6X551	3ARR28U3	6X573	19005	6X552 & 6X553	90-10	6X551
3ARR3**3EH*	6X552	3ARR28U4	6X574	19006	6X556, 6X557, 6X558	90-13	6X553
3ARR3**6EH*	6X553					90-14	6X555
						90-15	6X557
						90-16	6X559
3ARR3**3EK*	6X554			19007	6X559		
3ARR3**4EK*	6X555			19008	6X551 & 6X561		
3ARR3**3EL*	6X556						
3ARR3**4EM*	6X557						
3ARR3**3EM*	6X558						
ARR3**4EN*	6X559						
ARR3**3P3*	6X560						
ARR3**25S3*	6X561						
ARR4C*32	6X562						
ARR4C*7	6X563						
ARR4C*5	6X564						
ARR8E2	6X566						
ARR8E3	6X567						
ARR8E4	6X568						
ARR9E12	6X566						
ARR9E13	6X567						
ARR9E14	6X568						
ARR27U2	6X572						

SEE WARRANTY INFORMATION ON PAGE 684

AIR CONDITIONING & REFRIGERATION SUPPLIES



FREON-12 and FREON-22 REFRIGERANTS

FREON-12

\$47.88

No. 2W197

60 Lb. CYLINDER
80c/Lb.

FREON-22

\$59.45

No. 2W199

50 Lb. CYLINDER
\$1.19/Lb.

FREON-12 WITH DYTEL

\$26.96

No. 2W219

30 Lb. CYLINDER
88c/Lb.

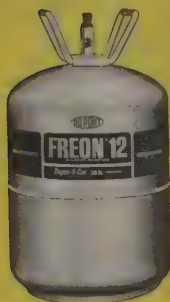
FREON-22 WITH DYTEL

\$40.04

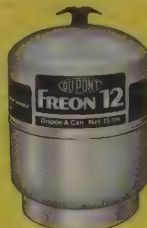
No. 2W220

30 Lb. CYLINDER
\$1.33/Lb.

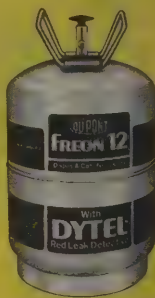
With and Without Dytel Leak Detective
Disposable Cylinders, Leak-Proof Valve
Factory-Filled for Dryness and Purity
120° F. Rupture-Disc Type Relief Valve



30 to 60 Lb. CYLINDERS



15 Lb. CYLINDERS



30 Lb. CYLINDERS
WITH DYTEL

Top-quality DuPont refrigerants in lightweight, disposable cylinders at low per-lb. cost. Factory-filled to assure maximum dryness and purity. 30, 50 and 60 lb. cylinders have sturdy carrying handle/stand and Dytel nylon, leakproof hand valve with 1/4" SAE male connection. All have rupture-disc relief valve set to operate at approximately 120°F. 15 lb. cylinders have 1/4" Schraeder valve. All cylinders charge vapor in upright position and liquid when inverted.

Freon-12—Dichloro-difluoro-methane, chemical formula CCl_2F_2 , boiling point $-21.6^\circ F$. Available in 15, 30 & 60 lb. cylinders. Widely used in residential and commercial air conditioning, refrigeration and low temperature equipment, food freezers & lockers, dehumidifiers, water coolers, etc.

Freon-22—Monochloro-difluoro-methane, chemical formula $CHClF_2$, boiling point $-41.4^\circ F$. Available in 15, 30 & 50 lb. cylinders. Widely used in residential and commercial air conditioning, fast food freezing equipment and similar applications.

Freon with Dytel—Freon-12 and Freon-22 are available with Dytel red dye leak detective in 30 lb. cylinders. Dytel offers a positive means of locating leaks in residential and commercial air conditioning or refrigeration systems, especially in equipment such as roof-top units, in the case of multiple small leaks in a small area, ice rinks, etc. User simply charges system with Freon containing Dytel and a highly visible spot of red

color appears wherever system is leaking. Freon with Dytel may remain in the system even if there is no leak. Field-proven Dytel is compatible with all system components and will not decompose at normal operating temperatures below $700^\circ F$. It is not chemically reactive and will not harm refrigerant, compressor oil, aluminum, iron, copper, zinc, plastic, elastomers, or hermetic motor insulation in the system. Has no detrimental effect on filters, driers or expansion valves. Freon with Dytel must be liquid charged.

DU PONT FREON-12 REFRIGERANT 15, 30, 60 Lb. Cylinders

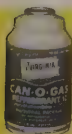
Freon Weight	Stock No.	Retail	Cylinder Each	Per Lb.	Shpg. Wt.
15 Lbs.	2W217	\$18.96	\$13.54	(\$0.90)	18
30 Lbs.	2W196	34.73	24.81	(.83)	38
60 Lbs.	2W197	67.03	47.88	(.80)	68

DU PONT FREON-22 REFRIGERANT 15, 30, 50 Lb. Cylinders

15 Lbs.	2W218	\$27.69	\$19.78	(\$1.32)	18
30 Lbs.	2W198	52.56	37.54	(1.25)	37
50 Lbs.	2W199	83.23	59.45	(1.19)	63

DU PONT FREON WITH DYTEL IN 30 Lb. CYLINDERS

Freon	Stock No.	Retail	Cylinder Each	Per Lb.	Shpg. Wt.
12	2W219	\$37.74	\$26.96	(\$0.88)	37
22	2W220	56.06	40.04	(1.33)	37



NEW

\$1.01

No. 6X247
Lots 12

14 Oz. CANS OF DuPont FREON-12

Widely used for servicing small systems, automotive units, etc. Available in screwtop (7/16"-20 male) and flat-top cans. Genuine DuPont Freon-12, packaged by Virginia Chemical Co. 14 oz. net.

Can Top	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
Screw	6X248	\$1.62	\$1.08	\$1.04	1 1/4
Flat	6X247	1.58	1.05	1.01	1 1/4

AIR CONDITIONING & REFRIGERATION SUPPLIES

ARNO 1½ & 2" MULTI-PURPOSE DUCT TAPE

Heavy-Duty & Economy Grades. 1½ & 2" Widths. Aluminum & Black Colors

\$2.52 Heavy-Duty Duct Tape—Top quality, high-strength cotton duct tape with fused vinyl coating. Designed for severe environments both indoors and outdoors. Completely waterproof and vapor proof; adheres to any surface permanently. Used for sealing all types of heating and air conditioning ductwork. Total thickness 14 mil. Tensile strength 55 lbs./in. width; 50 oz. per in. width adhesion to steel. 60-yard rolls, individually sleeved.

Economy Grade Duct Tape—For all indoor applications. Provides good strength, moisture resistance, and low price. Excellent for sealing ductwork, packaging, and many other indoor applications. Total thickness 15 mil. Tensile strength 40 lbs./in. width; 60 oz. per in. width adhesion to steel. Cloth tape has polyethylene film lamination. 60 yard rolls, individually sleeved.

HEAVY-DUTY DUCT TAPE

Tape Width	Color	Mfr. No.	Stock No.	Retail	60 Yds. Each	Lots 6	Lots 8	Shpg. Wt.
1½"	Aluminum	C511	2X911	\$5.64	\$4.34	—	—	2
	Black	C504B	6X267	5.64	4.34	—	\$4.05	2
2	Aluminum	C511	2X912	7.55	5.81	\$5.43	—	2¾
	Black	C504B	6X268	7.55	5.81	5.43	—	2¾

ECONOMY GRADE DUCT TAPE

1½"	Aluminum	C520	5X784	\$3.78	\$2.91	—	\$2.72	2
	Black	C519B	6X269	3.51	2.70	—	2.52	2
2	Aluminum	C520	5X785	5.07	3.90	\$3.64	—	2¾
	Black	C519B	6X270	4.68	3.60	3.36	—	2¾

ELECTRONIC LEAK DETECTOR

Detects All Halocarbon Refrigerants
Compact, Portable, Battery Operated



\$110.97

Less Batteries

Pinpoints refrigeration leaks as small as ¼ ounce per year of R-12. Powered by 2 D size cells (not included). Easy to use: Just flip-on

power switch, adjust thumbwheel balance control until red signal light goes on, then back off until signal light goes out. Unit is then ready to detect leaks, even in a room with halogen background. Flexible 18" probe bends to get into small, difficult openings—yet remains sufficiently rigid for fully extended use. Spiral guard protects sensing element at end of probe. Shock-resistant case provides protection for solid-state components and probe. Built-in R-11 reference leak for calibration; requires releveling about once a year. No warm-up time required. Response time approximately one second. Net weight 18 oz. with batteries. Dimensions: 3.2 W x 7.3 L x 1.8" T. G-E Tracker brand 0-420811AAA. Shpg. wt. 1 lb.

Replacement sensing element and reference leak are shipped prepaid from Chicago. Order from nearest W.W. Grainger, Inc. address for best service.

No. 6X277. Retail \$123.30. Each.....\$110.97

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated. See Sales Policy in Index for full details.

Shipment made from nearest Grainger Sales Office/Warehouse.

LPG-TYPE LEAK DETECTOR

Quickly Pinpoints Refrigerant, Other Halogen Gas Leaks. Turner Brand



\$11.78 Widely used in the refrigeration industry and by auto and home

air conditioning service men to locate halocarbon gas leaks quickly and easily. Compact, portable unit is easy to use: Simply light flame and check equipment with search hose. If leak is present flame changes color. Comes complete with precision-machined, forged brass valve assembly; rubber search hose; and disposable propane tank. Turner brand (LP-777). Shpg. wt. 2¾ lbs.

No. 2Z496. Turner Halide Gas Leak Detector. Retail \$18.42. Each \$12.69; lots 6.....\$11.78

GREEN EPOXY INSULATING VARNISH

High dielectric strength (Class F) of over 1900 volts/mil dry; over 1400 volts/mil wet (ASTM-D115-55). Can be baked or air dried. Extra-hard surface is oil and waterproof. Insulates motor windings, electrical components, etc. High arc-resistant and non-tracking properties. Green spray. Shpg. wt. 7½ lbs. per carton of 6.

No. 4X592. Retail \$2.69. Each \$1.85; lots 6.....\$1.55

CONTACT CLEANER SPRAY

Rapidly removes stubborn oxidation, carbon and corrosion deposits from contacts on electrical and electronic equipment. Leaves a protective film. May harm certain plastics and air-dried paint surfaces. Test before applying—use sparingly. Shpg. wt. 8¼ lbs. per carton of 6.

No. 4X598. Retail \$3.50. Each \$2.08; lots 6.....\$1.77

FILTERS FOR HEATING & AIR CONDITIONING

DUST-STOP AIR FILTERS

Sold in Full Cartons of 6 Filters of a Size



75c Lots 6
No. 1W304

Fiberglass filters for forced warm air and air-conditioning systems where air velocities do not exceed 300 feet per minute. Removes dirt, dust,

lint and up to 91% of ragweed pollen from air. Efficient Corsol stops more dust and holds more dust too. Depth loading traps dust all through the filter—lets it work longer before clogging. Reduces pollution. Clean filter air resistance at 300 feet per minute velocity is 0.060" water column for 1" filters and 0.075" water column for 2" filters. Fireproof and odorless. UL listed. Owens-Corning Dust-Stop brand.

1" THICK DUST-STOP AIR FILTERS

Size	Stock No.	Retail	Lots 6, Ea.	Wt. of 6
10x20x1	1W304	\$1.24	\$0.75	4
14x20x1	2W015	1.29	.78	4
15x20x1	1W506	1.29	.78	5
16x20x1	1W099	1.29	.78	5½
14x25x1	2W016	1.32	.80	4
16x25x1	1W098	1.29	.78	6½
20x20x1	1W097	1.32	.80	6½
20x25x1	1W096	1.42	.86	8
25x25x1	1W507	1.90	1.15	10

2" THICK DUST-STOP AIR FILTERS

16x20x2	1W103	\$1.77	\$1.07	7
16x25x2	1W102	1.77	1.07	8
20x20x2	1W101	1.80	1.09	8
20x25x2	1W100	2.03	1.23	10

STEEL GREASE FILTERS

2" Thick. Zinc Coated Steel Mesh. Permanent



SHOWN WITH OPTIONAL SNAP-IN BAIL HANDLES

\$6.00 No. 4C405
Lots 6

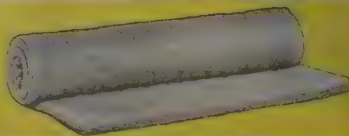
Highly efficient, heavy-duty, all-steel grease filters for commercial type kitchens in restaurants, hospitals, hotels, schools, etc. Corrugated, expanded steel filter mesh cleans easily, has slow resistance rise, good efficiency. Drain holes provided. UL listed air filter. Evans brand.

Nominal Size	Stock No.	Each	Lots 6 Each	Shpg. Wt.
10x20x2"	4C405	\$6.98	\$6.00	3½
16x20x2	4C406	8.36	7.18	4¾
16x25x2	4C407	9.16	7.87	6
20x20x2	4C408	9.16	7.87	5½
20x25x2	4C409	10.34	8.89	7¼

PAIR SNAP IN BAIL HANDLES FOR ABOVE
No. 4C410. Pair, \$1.29; 12 Pair.....\$1.21 Pair

HAMMOCK FILTER MEDIA

1" Thick, 30 & 36" Wide x 240" Long Rolls
Easily Cut to Required Size with Scissors



\$5.51

No. 2W185
Lots 5

Economical bulk rolls of 1" thick fiberglass filter material for replacing hammock type filters in furnaces and air conditioners. Easily cut to required size, eliminating necessity for stocking several different sizes. One roll usually enough for normal heating season in most areas. Durable media composed of continuous spun-glass fibers bonded together with thermo-setting resin. A special non-drying, non-toxic, adhesive coating on each fiber captures dust particles from the passing air; adhesive remains effective even when filter is coated with dust. Media has low air flow resistance and high dust, dirt and lint trapping efficiency for good furnace/air conditioner performance. Green color code on air entering side for proper installation. Individually cartoned rolls. UL listed.

Actual Size	Stock No.	Retail	Each	Lots 5	Shpg. Wt.
30"x240"x1"	2W185	\$7.25	\$6.00	\$5.51	2¾
36 x240 x1	2W186	7.75	6.25	5.78	3¾

TRIM-TO-FIT AIR FILTERS

For Most Room Air Conditioners. 15 x 24"
Both Easily Trimmed to Fit with Scissors

PERMANENT
FILTER

15 x 24 x ¼"

\$1.19

No. 1W755
Lots 12

DISPOSABLE
FILTER

15 x 24 x ½"

51c

No. 1W633
Lots 12

Permanent and disposable fiberglass filter material widely used in room air conditioners. Removes dust, dirt, pollen, etc. and maintains high air conditioner efficiency by keeping coils clean. Permanent type is polyurethane material, 15 x 24 x ¼"; disposable is 15 x 24 x ½". Both can be easily cut to size with scissors. No frame needed. Permanent type may be washed or vacuumed clean. Permanent type sold individually, disposable type available only in cartons of 12. Tested according to AF1 code. UL listed. Breeze Easy.

Filter Type	Stock No.	Retail	Each	Lots 12	Shpg. Wt.
Permanent	1W755	\$2.00	\$1.30	\$1.19	6 os.
Disposable	1W633	0.79	—	0.51	3 lbs.

Dayton Vented Gas Space Heaters

Wall, suspended, or free-standing models. 11,000 to 400,000 BTU outputs. AGA certified. See Index under Gas Heaters.

HIGH OUTPUT FAN-FORCED PORTABLE OIL HEATERS

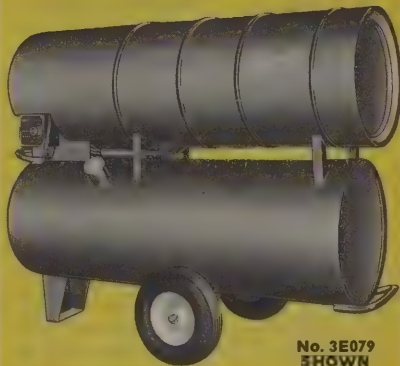
100,000 to 500,000 BtuH on Kerosene or Fuel Oil. Built-In Thermostat & Flame-Out Protection
Meets OSHA Requirements. Large Fuel Capacity and Quiet High-Volume Circulating Fan

Quietly provides instantaneous circulation of clean, heated air for personnel, materials, equipment, animals, space heating, etc. Widely used on construction sites, farms, garages, warehouses; wherever temporary or emergency heat is necessary. Burns kerosene, No. 1 or No. 2 fuel oil. Many hours of heat service per filling. Circulating fan continues to operate until burner is shut off by built-in thermostat or flame-out control. If residual heat causes temperature to build up, only the fan turns back on, heater again purges and shuts off. Heated area must be well ventilated. Each model meets requirements of the Occupational Safety and Health Act (OSHA). Automatic flame-out and thermostat controls for air temp. and fan cycling are installed as standard equipment. Patented stainless steel combustion chamber allows more complete burning of fuel. Filtered nozzle is permanently regulated for complete fuel atomization and elimination of flames and odors. Standard heating components are used throughout for convenient servicing: unstrand high pressure pump, automotive type fuel filter, Webster electric oil valve and Westinghouse motors. Webster transformer provides continuous ignition. Durable, all-welded construction for long life.

Other features include large tires, handles for portability, 16/3 line cord with plug, and internal heat shield to maintain low surface temper-

\$284.76

100,000 BtuH



No. 3E079
SHOWN

ature during operation. Red enamel finish. Comes completely assembled. For 115V, 60 Hz operation. Stone Construction Equipment, Inc.

BtuH Input	Fuel Capacity	Fuel Hours	Fan CFM	Motor HP	Mfr. Model	Dimensions			Stock No.	Retail	Each	Shpg. Wt.
						H	W	L				
00,000	13 Gal.	20	800	1/4	SG100A	31"	18"	31"	3E165	\$339.00	\$284.76	117
50,000	16 Gal.	15	800	1/4	SG150A	30	19	39	3E166	399.00	335.16	133
100,000	32 Gal.	15	2000	1/3	SG300A	36	20	45	3E079	649.00	558.14	215
200,000	55 Gal.	15	3500	3/4	SG500A	44	27	47	3E080	899.00	772.98	302

FAN-FORCED PORTABLE LP GAS HEATERS

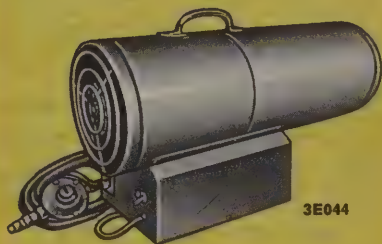
150,000 to 350,000 BtuH on Propane or Butane Bottled Gas. Automatic Electric Ignition
Adjustable Burning Rate Model Meets OSHA Requirements. 100% Safety Flame Shut-Off

These efficient, lightweight portable heaters deliver high BtuH output per dollar of capital investment and have high safety factor due to low combustion by-products. No. 3E044 has a single burning rate with 150,000 BtuH output. No. 2E400 has an adjustable burning rate from 150,000 to 350,000 BtuH output by means of pressure regulator knob. No. 2E400 is built in adjustable thermostat. Both models have sealed mercury tipover switches—Meets requirements of Occupational Safety & Health Act (OSHA).

Powerful fan efficiently circulates heated air. Automatic electric ignition and spark. 100% safety flame detector shuts down heater on ignition or flame failure. High temperature limit switch. Fan motor has automatic thermal overload voltage protection. Remains cool to touch. Rugged, compact construction, extremely stable. 16 ft. gas hose and regulator furnished. Red enamel finish. 115V, 60 Hz. 6 ft. 3-wire cord set. Universal brand.

\$197.18

150,000 BtuH



3E044

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

Burning Rate	Maximum BtuH Input	Fuel Rate Lbs./Hr.	Cylinders Req. (Min.)	Fan CFM	Motor HP	Mfr's. Model	Dimensions			Stock No.	Retail	Each	Sh. Wt.
							H	W	L				
Instant Adjustable	150,000	6.9 @ 11"WC	2/100 Lb	600	1/12	150FA	15"	9"	25"	3E044	\$262.90	\$197.18	38
	350,000	16 @ 40 PSI	3/100 Lb	1600	1/6	3500FA	20	13	31	2E400	425.70	319.28	65

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP
WE'LL HAVE THE ITEMS READY WHEN YOUR TRUCK ARRIVES

LPG INFRARED HEATERS

Completely Portable. Lightweight & Rugged
16,000 & 32,000 BtuH on Propane Bottle Gas

\$56.00

16,000
BtuH

HUNDREDS OF APPLICATIONS

- Building Construction
- Warehouse Operations
- Sporting Events
- Animal Comfort
- Patio or Poolside
- Material Protection
- Railroad Industry
- Trucking Industry
- Outdoor Servicing
- Maintenance Garages
- Outdoor Trade Shows
- Thawing Pipes, Valves
- Curing and Drying
- Burial Services

Literally hundreds of applications for these rugged, compact, radiant heaters. Construction, farm, home, municipal, sports, auto & truck service, etc. Up to 50% greater efficiency than conventional heaters. Imparts instant, uniform heat to personnel or objects, not to surrounding air. Units mount on any standard 5 lb. or larger LPG bottle (not supplied) with heavy gauge, swivel-type mounting clamp provided. No warm-up time, no electrical connections. Rugged ceramic grid has protective stainless steel rods which also amplify infrared radiation. Stainless steel venturi on 32,000 BtuH unit, aluminumized steel on 16,000 BtuH unit. Stainless steel baffle, and retainers. Aluminumized steel frame and burning chamber. Polished aluminum reflector. Supplied with 100% safety shut-off valve, thermocouple flame detector, P.O.L. fitting with excess flow check, LP gas regulator and 2 ft. L. connecting hose. 16,000 BtuH model is 13 H x 10 W x 4 1/2" D. 32,000 BtuH model is 18 1/4 H x 10 W x 4 1/2" D. Detroit Radiant. Shpg. wts. 9 and 13 lbs. respectively.

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

BtuH Input	Mfr. Model	Stock No.	Retail	Each
16,000	P-16P	2E392	\$95.00	\$56.00
32,000	P-32P	2E393	120.00	79.20

SAFETY HARD HATS

\$3.13 Lots 6

Either Color

Meet or exceed Fed. specs for impact and penetration, plus dielectric requirements of EEL specs. Made of high density polyethylene. Rain

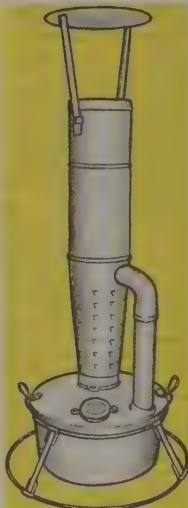
trough design. High edge strength for extra protection from head-on and side impact. Size 6 1/2-8. Adjustable headgear. Sweatband. 1 3/4 lbs.

Color	Mfrs. Model	Stk. No.	Retail	Each	Lots 6
Yellow	4365Y	4X637	\$5.04	\$3.62	\$3.13
White	4365W	5X808	5.04	3.62	3.13

HY-LO HARD HAT HEATER

Return-Gas-Stack, Oil Burning Radiant Heater
Up to 140,000 BtuH on Kerosene or Diesel Fuel
Meets OSHA and ANSI A10.10 Requirements

\$41.62



Clean, inexpensive, spot heating anywhere for builders, farms, utilities, railroads, garages, countless others. Solves many on-site heating problems. Completely portable and easily set up at any location. Low initial cost, little maintenance. Use indoors or out; can be easily vented for inside heating. Easy to light and regulate, anyone can operate. Unit is efficient and smoke-free. Burns 1/2 to 1 gal./hr. (70,000 to 140,000 BtuH), kerosene, stove oil, or diesel fuel. 10 gal. bowl capacity. One filling lasts 10 to 20 hours. Constructed of heavy-duty electro-galvanized steel, deep-drawn seamless fuel bowl, fabricated stack. Sturdy stand. 62" H x 21" dia. 8 1/4" stack dia. Shpg. wt. 29 lbs. Scheu Mfg. Co. No. 3E043. Oil Heater. Ret. \$63.50. Each, \$41.62

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

DROP OPAL GLASS RECESS

Ample Side Lighting. Indoor or Outdoor Use
Parabolic Reflector. Prewired or Nonwired



Nonwired
\$10.93
100W

Prewired
\$12.62
100W

Attractive drop opal glass recess units provide highest amount of side light with minimum glare. Wide, contoured anodized satin aluminum frame and black lite-tite gasket, hinged with concealed torsion spring for easy relamping. Patented 2-piece recess box designed for quick, easy installation. Parabolic drop-out reflector provides maximum lumen output, uniform light distribution. Prewired models include large-size junction box with ample knockouts, bar hangers for 14 to 18" joist spacing. 115V, 60 Hz. UL listed. Halo brand.

Max. Watts	Box Size W	L	H	Stock No.	—Less Bulbs— Retail Each	Shpg. Wt.
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NONWIRED MODELS

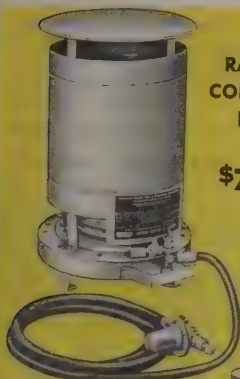
100	8 1/4	8 1/4	4 1/4	2V195	\$17.75	\$10.93	3
150	10 1/4	10 1/4	5	2V196	23.86	13.79	4

PREWIRED MODELS

100	8 1/4	8 1/4	4 1/4	2V085	19.97	12.62	7
150	10 1/4	10 1/4	5	2V086	26.08	16.32	9

PORTABLE PROPANE/BUTANE GAS HEATERS

Choice of Radiant/Convection Type or Infrared Type. Both Have Pilot with 100% Safety Valve



[A]
**RADIANT/
CONVECTION
HEATER**

No. 2E427

\$74.25

Hose
& Regulator
Included

These efficient, lightweight, compact, portable heaters are widely used for construction, outdoor servicing, sports events, railroad & trucking operations, farm, garages, etc. Ideal for jobs where electrical power is not available. Both heaters use readily available propane or butane bottled gas (LPG), and offer low initial cost along with an adjustable burning rate for maximum fuel economy. User adjusts BtuH output to suit the application.

Pilot/thermocouple safety allows main burner to be turned on and off without relighting, once pilot has been ignited. In event of flame-out, the safety valve automatically shuts off gas supply to pilot and main burner. Heaters furnished with POL/excess flow check valve, 10 ft. of high-pressure connecting hose and pressure regulator with left-hand fittings. Rugged, all-steel construction with brushed finish. No electrical connection required. Both heaters comply with paragraph 1.4 of NFPA pamphlet 58-1969 and ANSI A10-1970 Safety Requirements for Temporary and Portable Space Heaters. Universal Brand by National Riverside.

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

[B]

**INFRARED
HEATER**

No. 2E426

\$108.75



Hose
& Regulator
Included

[A] RADIANT/CONVECTION HEATER

Creates natural air movement which helps circulate heat. Output adjustable from 50,000 to 250,000 BtuH. Consumes 2.3 to 9.2 lbs. propane per hour. 14" diameter x 23" H. Net weight, 14½ lbs.; shpg. wt. 17 lbs. Mfr's. model 250.

No. 2E427. Heater. Retail \$99.00. Each.....**\$74.25**

[B] INFRARED RADIANT HEATER

Heats people and objects. Infrared rays are produced on a glowing red, stainless steel emitter surface and radiate outward in a full circle. Has protective outer grille. Saves fuel while heating effectively. 100,000 BtuH output. Consumes 4.6 lbs. propane per hour. 18" diameter x 29" H. Net weight, 24 lbs.; shpg. wt., 27 lbs. Mfr's. model 100R.

No. 2E426. Heater. Retail \$145.00. Each....**\$108.75**

PERFECTION PORTABLE KEROSENE HEATER

**Fast, Clean, Economical, Lightweight. 11,000 BtuH
0.8 Gal. Fuel Tank, 8 to 12 Hrs. Burning Time**

\$23.37

EXCELLENT FOR:

- Camping
- Building Sites
- Garages
- Fishing Shantys
- Duck Blinds
- Outdoor Athletic Events
- Power Outages
- Farms & Cottages
- Thawing Pipes

A rugged, economical heater for hundreds of applications requiring instant, temporary heat. Can also be used to cook on. Entirely self-contained; no fuel line or electrical connection required. Delivers 11,000 BtuH of radiant heat for 8 to 12 hours on a single filling of less than 1 gallon of kerosene. Heats 1100 cubic feet of space from 0° to 70°F or 1500 cubic feet from 20° to 70°F. UL listed. Has air-cooled handle, double safety latch and metal non-tip base. Sturdily constructed. Polished steel upper drum, black enameled steel lower drum and top plate. Zinc coated steel, removable, 0.8 gallon fuel reservoir with floor tray. One wick included; extra wicks listed below. Use only high-grade, pure kerosene. Must be operated only in a well ventilated area. 24½" H x 13½" diameter. Shpg. wt. 12 lbs. Perfection model 730.

No. 2E428. Portable Heater. Retail \$26.95. Each....**\$23.37**

90-DAY LIMITED WARRANTY. See Limited Warranty Policy in Index.

EXTRA WICK for Above No. 2E428 heater. Shpg. wt. 6 oz. Perfection model 500.

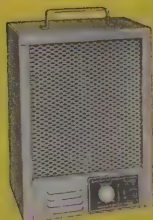
No. 6X401. Wick. Retail \$2.20. Each.....**\$1.90**



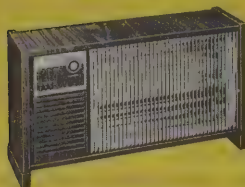
PHONE YOUR ORDERS TO GRAINGER'S FOR TIME SAVING PICK-UP

SEE WARRANTY INFORMATION ON PAGE 684

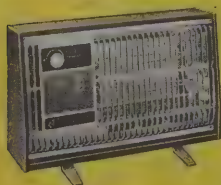
ARVIN 110-120V and 240V, 60Hz, PORTABLE



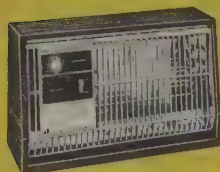
A
110-120V
"Milkhouse"
Style
\$22.60
No. 4H842



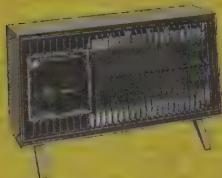
B
110-120V
Deluxe
2 and 3-Heat
Nos. 4H839 and
4H813
\$28.76
No. 4H813



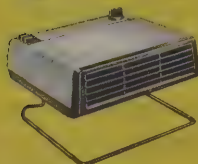
C
110-120V
3-Heat
Slim Line
\$26.80
No. 5H459



C
110-120V
1 and 2-Heat
Slim Lines
Nos. 5H439 and
5H440
\$18.86
No. 5H439



D
110-120V
1-Heat
Economy
No. 5H314
\$15.98



E
110-120V
Mini-Heater/
Fan
No. 5H438
\$24.43

ALL ARVIN HEATERS FEATURE:

- Quiet Circulating Fan, UL Listing
- Automatic Thermostat with Off Position
- Automatic Tipover or Limit Control (Except Nos. 3H137 and 3H138)
- High-Temperature Cord and Plug (except No. 3H138)
- Carrying Handle (Except Nos. 3H137, 3H138)

A 110-120V "MILKHOUSE" HEATER

1250/1500 Watts, Extra-Rugged

Portable "Milkhouse" heater for use in farm buildings, shops, garages, basements—anywhere a low-cost, rugged heater is required. Selection of 4266 or 5120 BtuH. Heavy-duty fan. Nickel chrome coil element. Cool outer cabinet is 20 ga. steel with tan enamel finish. 14½" H x 10" W x 7" D. Shpg. wt. 9 lbs. (Mfr's. model 29H90-01.)

No. 4H842. Heater. Retail \$32.95. Each.....**\$22.60**

B 110-120V, DELUXE 2 and 3-HEAT

1250/1500 Watts and 1000/1250/1500 Watts

Choice of two models: 3413/4266/5120 BtuH with pushbutton controls or 4266/5120 BtuH with rotary switch selection. 3-heat model has walnut woodgrain vinyl covering, 2-heat model is finished in bronze brown enamel. 13½" H x 24½" W x 6½" D. (Mfr's. models 30H30 and 30H22-01.)

Watts	Stock No.	Retail	Each	Shpg. Wt.
1250/1500	4H813	\$44.95	\$28.76	12
1000/1250/1500	4H839	57.95	35.12	13

C 110-120V SLIM LINES

1500, 1250/1500 and 1000/1250/1500 Watts

Choice of 5120 BtuH, 4266/5120 BtuH or 3413/4266/5120 BtuH. 2-heat model finished in bronze brown enamel, 1 and 3-heat models in Spanish brown enamel. Disappearing carrying handle. No. 5H459 has wide feet for stability. 11½" H x 18½" W x 5½" D, except No. 5H459 is 9½" D. (Mfr's. models 30H11-01, 30H20-01 and 30H33.)

Watts	Stock No.	Retail	Each	Shpg. Wt.
1500	5H439	\$28.95	\$18.86	8
1250/1500	5H440	33.95	23.04	8
1000/1250/1500	5H459	39.95	26.80	9

D 110-120V, 1-HEAT ECONOMY

1320 Watts

Low priced heater with deluxe features. Delivers 4505 BtuH of heat. Ribbon elements with polished wide angle reflector. Finished in desert tan enamel. 12½" H x 18½" W x 6" D. Shpg. wt. 8 lbs. (Mfr's. model 30H25-01.)

No. 5H314. Heater. Retail \$22.95. Each.....**\$15.98**

E 110-120V MINI-HEATER/FAN

750/1500 Watts, Personal Size Case

Provides selection of 2560 or 5120 BtuH of fan-forced heat or gentle, cooling breeze only. Telephone-size case fits on or under desk or table. 2-position stand lets user direct air horizontally or upward. Nickel-chrome element. 5½" H x 9½" W x 9" D. Rugged steel case with desert tan enamel finish. Pushbutton controls. Shpg. wt. 5 lbs. (Mfr's. model 29H60-01.)

No. 5H438. Heater. Retail \$34.95. Each.....**\$24.43**

ELECTRIC HEATERS and HEATER FIREPLACES

ALL ARVIN HEATERS FEATURE:

- Quiet Circulating Fans. UL Listing
- Automatic Thermostat with Off Position
- Automatic Tipover or High Limit Switch Control (Except Nos. 3H137 and 3H138)
- High-Temperature Cord and Plug (Except No. 3H138)
- Carrying Handle (Except Nos. 3H137, 3H138)

F DELUXE HEATING FIREPLACES

110-120V, 1500W and 240V, 2000/3000/3840W

Provide the warmth and relaxing charm of wood-burning fireplaces, without smoke, wood-lugging or cleaning chores. Contemporary styling. Oak logs have simulated embers, revolving drum and 25W amber lamp which produce realistic, flickering flame effect. Black mesh, draw-type wire screen with brass pulls adds to realism. No. 3H137 delivers 5120 BtuH, No. 3H138 delivers 6826/10,239/13,106 BtuH. Electric heater is concealed behind grille in base. Single fan in No. 3H137, twin fans in No. 3H138. Heat and logs may be operated separately or together. Unit may be surface-mounted on wall or placed free-standing on floor against wall; easily installed or moved. Wall-mounting bracket included. 24 ga. steel construction. Satin black enamel finish, gold color aluminum trim. Removable feet. 52 H x 29 3/4 W x 13 3/4 D. (Mfr's. models 90H10-1K and 90H30-3K.)

Volts	Watts	Stock No.	Retail	Each	Shpg. Wt.
120	1500	3H137	\$159.95	\$101.47	57
240	2000/3000/3840	3H138	209.95	134.30	58

G 110-120V PERIMETER HEATERS

1250/1500 and 1000/1250/1500 Watts

Low-profile, perimeter style heaters supply both fan forced and radiant heat quietly and safely. Attractive styling blends with any decor. Choice of 4266/5120 BtuH or 3413/4266/5120 BtuH. Long-life, ribbon-type elements, backed by bright finish, wide angle radiant heat reflector. Heat-limiting thermostat. Polished, close-mesh, safety grille. Steel-case. Non-marring rubber feet protect table, floor. Spanish brown enamel on No. 4H840, beige enamel on No. 4H270. 7 3/4 H x 40 W x 4 1/2 D. (Mfr's. models 49H20 and 49H30.)

Watts	Stock No.	Retail	Each	Shpg. Wt.
1250/1500	4H270	\$44.95	\$29.58	10
1000/1250/1500	4H840	52.95	33.50	12

H 240V, 2-HEAT HEAVY-DUTY

3200/5600 Watts. Hydraulic Thermostat

High-output heater with switch selection of 0,921 or 19,112 BtuH. 8" diameter, heavy duty fan with air delivery patterned for deep penetration into room for fast warm-up. Nickel chrome elements. Heavy-duty bulb-type hydraulic thermostat. Fine mesh, chrome plated grill. Cool, dual-wall, steel cabinet finished in Spanish brown enamel. 15 1/4 H x 20 1/2 W x 5 1/4 D. Shpg. wt. 20 lbs. (Mfr's. model 24H06-01.)

No. 5H437. Heater. Retail \$86.95. Each.....\$60.23

I 240V, 1-HEAT HEAVY-DUTY

4000 Watts. Twin Fans

This rugged heater delivers 13,652 BtuH. Features twin fans and motors for efficient air circulation. Nickel chrome elements. Fine mesh safety grill. Cool, 22 ga. steel cabinet finished in esert tan. 18 1/2 H x 21 1/2 W x 8 1/2 D. Shpg. wt. 4 lbs. (Mfr's. model 24H14-01.)

No. 5H460. Heater. Retail \$62.95. Each.....\$43.93

F HEATER FIREPLACES

110-120V
1-Heat

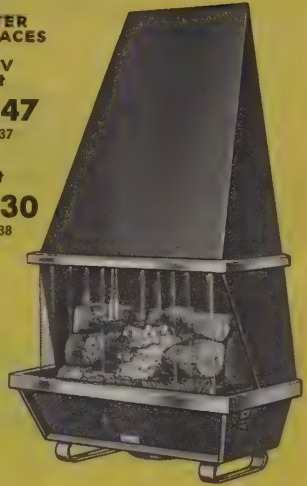
\$101.47

No. 3H137

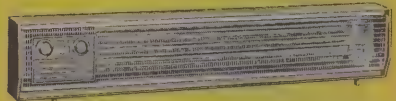
240V
3-Heat

\$134.30

No. 3H138



G 110-120V PERIMETER STYLE



2-Heat

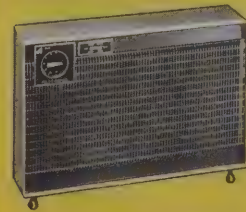
\$29.58

No. 4H270

3-Heat

\$33.50

No. 4H840



H

240V
2-Heat
Heavy-Duty

\$60.23

No. 5H437



Plug



I

240V
1-Heat
Heavy-Duty

\$43.93

No. 5H460

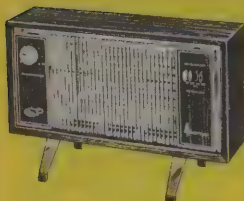


Plug

TITAN 110-120V and 240V, 60Hz,



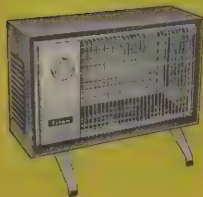
A
110-120V
"Milkhouse"
Style
\$18.43
No. 2H934



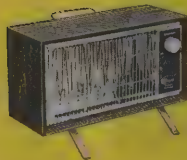
B
110-120V
4-Heat
Deluxe
\$30.49
No. 5H187



C
110-120V
2-Heat
Deluxe
\$24.29
No. 5H188



D
110-120V
1-Heat
Deluxe
\$19.77
No. 5H458



E
110-120V
1-Heat
Economy
\$15.24
No. 5H426

ALL TITAN HEATERS FEATURE:

- Quiet Circulating Fan. UL Listing
- Automatic Thermostat with Off Position
- Automatic Tipover or Limit Control
- High Temperature Cord and Plug
- Carrying Handle and Non-Mar Feet

A 110-120V "MILKHOUSE" HEATER

1300/1500 Watts. Extra-Rugged

Portable "Milkhouse" heater for use in farm buildings, shops, garages, basements—anywhere a low-cost, rugged heater is required. Selection of 4436 or 5120 BtuH. Heavy-duty fan. Cool outer cabinet is 20 ga. steel with two-tone gray enamel finish. Special handle for overhead mounting. 10 W x 16 H x 9½" D. Shpg. wt. 12 lbs. (Mfr's. model T760B.)

No. 2H934. Heater. Retail \$27.50. Each.....\$18.43

B 110-120V, 4-HEAT DELUXE

900/1100/1300/1500 Watts

Versatile heater offers convenient pushbutton selection of 3070, 3758, 4436 or 5118 BtuH. Quiet circulating fan. Instant-glow ribbon-type elements. Chrome safety grille. Wood tone vinyl finish on cool-to-touch steel cabinet. 13 H x 20¼ W x 11½" D. Shpg. wt. 12 lbs. (Mfr's. model RT40A.)

No. 5H187. Heater. Retail \$45.50. Each.....\$30.49

C 110-120V, 2-HEAT DELUXE

1300/1500 Watts

Smartly styled, compact heater with switch selection of 4436 or 5118 BtuH. Ribbon elements, chrome safety grille. Cool-to-touch steel cabinet with wood-tone finish. 13 H x 17 W x 11½" D. Shpg. wt. 10 lbs. (Mfr's. model RT28B.)

No. 5H188. Heater. Retail \$36.25. Each.....\$24.29

D 110-120V, 1-HEAT DELUXE

1500 Watts

Smartly styled, compact heater delivers 5118 BtuH of heat. Quiet circulating fan. Ribbon elements, chrome safety grille. Cool-to-touch steel cabinet with wood-tone finish. 13 H x 17 W x 11½" D. Shpg. wt. 11 lbs. (Mfr's. model RT26B.)

No. 5H458. Heater. Retail \$29.50. Each.....\$19.77

E 110-120V, 1-HEAT ECONOMY

1400 Watts

Space-saving heater provides 4777 BtuH of heat. Styled like high-priced units, with wood-tone finish cabinet. Quiet circulating fan. Steel cabinet is designed to stay cool during operation. Chrome safety grille. 10 H x 15½ W x 10½" D. Shpg. wt. 6 lbs. (Mfr's. model RT10.)

No. 5H426. Heater. Retail \$22.75. Each.....\$15.24

HEATER LITERATURE AVAILABLE: Literature on Arvin and Titan heaters is available from Grainger's for the asking. Let our sales or counter people know what you need, or let us know on a postcard. Our people are always pleased to provide product information that will help you promote sales.

PORTABLE ELECTRIC HEATERS

ALL TITAN HEATERS FEATURE:

- Quiet Circulating Fan. UL Listing
- Automatic Thermostat with Off Position
- Automatic Tipover or Limit Control
- High Temperature Cord and Plug
- Carrying Handle and Non-Mar Feet

F G 110-120V, SLIMLINE STYLE

F 1-HEAT WITH TIMER, 1500 WATTS: Has built-in 24 hr. repeating timer for maximum convenience. Allows user to set heater for daily, automatic on-off operation; dressing in morning, retiring at night, pre-warming garage, etc. Delivers 5118 BtuH. Pushbutton controls. Combination coil and tubular type elements for high efficiency. Steel cabinet with walnut grained vinyl finish. Cabinet is cool to touch. Silent circulating fan. Limit switch turns off heater should foreign objects such as curtains block grill or air intakes. Also has tipover switch. Disappearing handle hides away to give true furniture elegance and is angled to prevent drapery from blocking air intakes. 8¼ H x 38¼ W x 5½" D. Shpg. wt. 13 lbs. (Mfr's. model BB41.)

No. 5H427. Heater. Retail \$62.50. Each.....\$41.88

G 2-HEAT, 1200/1500 WATTS: Offers pushbutton selection of 5118 or 4094 BtuH. Instant ribbon type elements and convection coils for extra circulated heat. Cabinet is cool to touch. Silent circulating fan. Front safety grille. Internal limit switch turns off heater should foreign objects such as curtains block grille or air intakes. Internal tipover switch automatically shuts off heater should it be accidentally tipped over forward. Walnut grained vinyl finish. Disappearing handle hides away to give true furniture elegance and is angled to prevent drapery from blocking air intakes. 8¼ H x 38¼ W x 5½" D. Shpg. wt. 12 lbs. (Mfr's. model BB42.)

No. 5H425. Heater. Retail \$44.25. Each.....\$29.65

H I 240V, 2-HEAT HEAVY-DUTY 3000/4800 Watts

Offers pushbutton selection of 10,230 or 16,360 BtuH. Nickel-chrome elements. Powerful circulating fan can be run separately for summer cooling. Heater On lamp. Safety overload switch. Cool, steel cabinet with wood-tone finish. 19½ H x 17 W x 9" D. Shpg. wt. 21 lbs. (Mfr's. model 469.)

No. 5H168. Heater. Retail \$86.50. Each.....\$56.04

I 240V, 1-HEAT HEAVY-DUTY 3000, 4000 and 4800 Watt Models

Choice of 10,230, 13,640 or 16,360 BtuH. Designed for heavy-duty applications in farms, shops, etc. Heavy-duty nickel chrome elements. Silent circulating fan. Limit control shuts off heater if operating temperature becomes excessive. Heater On lamp. Steel cabinet with two-tone metallic beige finish. 16 H x 15½ W x 13¼" D. (Mfr's. models 166C, 267B and 368C.)

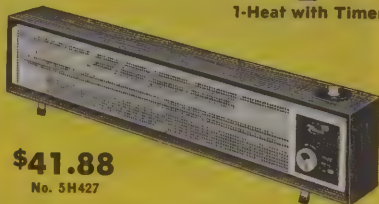
LIMITED WARRANTY: 10 years on elements, one year on all other parts. See Limited Warranty Policy in Index.

Watts	Stock No.	Retail	Each	Shpg. Wt.
3000	2H442	\$64.00	\$42.88	18
4000	5H436	73.00	48.91	19
4800	5H428	80.50	53.94	18

F G 110-120V SLIMLINE STYLE

F

1-Heat with Timer

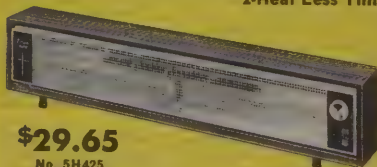


\$41.88

No. 5H427

G

2-Heat Less Timer



\$29.65

No. 5H425

H I 240V HEAVY DUTY

H

2-Heat

\$56.04

No. 5H168



Plug

I

1-Heat

Nos. 2H442, 5H436, 5H428

\$42.88

No. 2H442

Plugs



2H442
5H436

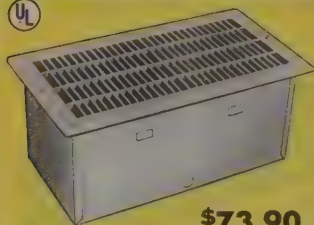


5H428



EMERSON-CHROMALOX FLOOR DROP-IN HEATER

Operates on 120, 208 or 240V, Five Selectable Wattages. UL Listed
Built-In Circulating Fan. Automatic Thermal Overheat Protector. Heavy-Duty Grille



\$73.90

WATTAGE AND BtuH		
Volts, 60Hz	Watts	BtuH
120	1500	5120
	1125	3840
	750	2560
	375	1280
208	1125	3840
	562	1920
240	1500	5120
	750	2560



Quiet, easy-to-install electric heater designed to provide a draft barrier for large window areas, sliding glass doors, entryways, hallways, open stairwells, and other problem areas. It produces a warm air flow pattern five feet wide, four feet above floor. Can also be used for supplementary heating in kitchens, bedrooms, recreation rooms, etc. For floor mounting only. Not for bathrooms. Unit operates on 120, 208 or 240 volts, with a wide selection of wattages as listed in table above. Factory wired for 240/208V. Push-on-tab wire terminals permit easy connection for desired wattage.

Rugged, metal tube, finned, sheathed elements assure efficient performance. Easy-to-install unit

mounts between joists, parallel or perpendicular. Rough-in housing installs first and element/fan assembly is simply dropped in and grill fastened. Heavy-gauge steel, duo-directional grille has sandalwood baked enamel finish. Automatic thermal protector prevents overheating due to obstruction of heater, etc. Rough-in housing is 14 $\frac{1}{16}$ x 7 $\frac{1}{4}$ ", grille is 15 $\frac{3}{4}$ x 8 $\frac{3}{4}$ ". U.L. listed. Heater may be controlled by the built-in thermostat listed below. A wall type thermostat, listed with baseboard heater accessories below, is recommended when floor heater is the sole source of heat. Shpg. wt. 14 lbs. Mfr's. model FDI-1415-4M.)

No. 2E431. Heater. Retail \$118.20. Each.....\$73.90

BUILT-IN THERMOSTAT for Emerson-Chromalox floor drop-in heater listed above. Fast-acting, remote bulb type. Use only when heater is wired for 120V operation. Can be added at any time. Has screwdriver-adjusted temperature control knob. Mounting hardware furnished. Shpg. wt. 12 oz. (Emerson-Chromalox model FDI-TK-1415.)

No. 6X361. Built-In Thermostat. Retail \$27.35. Each.....\$17.15

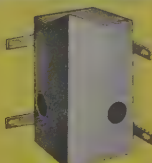
ACCESSORIES FOR DAYTON BASEBOARD HEATERS

For Use with All Dayton Baseboard Heaters Listed on Facing Page. All Are UL Listed



A OUTLET SECTION

\$6.79



B INSIDE CORNER

\$4.00



C WALL THERMOSTATS

\$7.67 2E173



D BUILT-IN THERMOSTATS

\$5.90 No. 6X359

A 120V Duplex Outlet Section

Twin 120V outlets for convenience. Installs on end of one heater or between two heaters. Shpg. wt. 1 lb.

No. 2E405. Retail \$11.50. Each.....\$6.79

B Inside Corner Section

Joins two heater units at inside corner of wall. Gives neat, finished appearance. Shpg. wt. 8 oz.

No. 2E465. Retail \$6.30. Each.....\$4.00

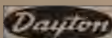
C Wall Thermostats

Type	Stock No.	Retail	Each	Shpg. Wt.
SPST	2E173	\$15.34	\$7.67	11 oz.
DPST	2E174	18.64	9.32	1 lb.

D Built-In Thermostats

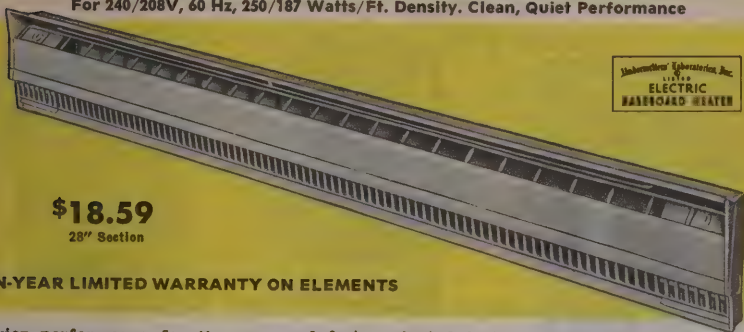
Easily installed in junction box of any Dayton electric baseboard heating section. Available in hydraulic type, which provides more sensitive (\pm °F) temperature control through use of heat sensing capillary tube located in heater air return, or economical bimetal type, located behind control knob, used where less sensitive (\pm °F) temperature control is acceptable. DPST type can be wired to break both sides of the line and is for single circuits only.

Type	Switch Action	Stock No.	Retail	Each	Shpg. Wt.
Hydraulic	SPST	2E403	\$18.00	\$11.15	9 oz.
	DPST	2E404	27.00	16.69	11 oz.
Bimetal	SPST	6X359	9.50	5.90	8 oz.
	DPST	6X360	14.00	8.66	8 oz.



ELECTRIC BASEBOARD HEATERS

28 to 120 inch Lengths, 1706 to 8532 BtuH. Exceptionally Easy to Install. Steel Fin
For 240/208V, 60 Hz, 250/187 Watts/Ft. Density. Clean, Quiet Performance



\$18.59

28" Section

TEN-YEAR LIMITED WARRANTY ON ELEMENTS

Superior performance for the user and fast, trouble-free installation for the contractor. Dayton baseboard heaters are the finest available for modern electric heating—residential or commercial, new construction or remodeling. Stocked in 28, 40, 48, 60, 72, 96 and 120 inch lengths, for 240/208V, 60 Hz service; 250 watts/ft. on 240V, 187 watts/ft. on 208V. All units are union made, UL listed, and exceed NEMA Standard HE2 criteria for cleanliness of operation. Check these quality Dayton features; they assure smooth, quick installation with excellent customer satisfaction:

FAST, EASY INSTALLATION—Designed with the installer in mind.

1. Zip-tape cartons open in seconds, saving valuable time. Rugged cartons and protective wax paper assure dent and scratch-free heaters.
2. Snap-off front cover has positive retention yet removes easily.
3. Accessible mounting holes every two inches along back plate. No need to drill.
4. Wire from either end. Big junction boxes have knockouts on back, bottom and end. Single screw removes access plate.
5. Wire two units together (up to 20 ft.) without using a wireway. Recess beneath unit allows for electrical fittings and lateral location.
6. Can be installed on finished floor even if carpeting is added later.

QUALITY ELEMENT DESIGN—Helically coiled nickel chromium alloy resistance wire is embedded in magnesium oxide and swaged into corrosion resistant steel tubing. Zinc plated steel fins are locked to these tubes under thousands of pounds pressure, forming one solid, heavy weight, all-steel element assembly which delivers maximum performance.

CLEAN, QUIET, EVEN HEAT—High-mass element gives a heat storage effect by warming and cooling slower than light weight aluminum elements. While a room loses heat continuously, more of the heat generated by the element during the on cycle is retained and slowly dis-

sipated during the off cycle, thus more closely matching heater output to room heat loss. Besides generating greater quantities of lower temperature air across the large element fin area, the baseboard projects higher velocity air further out into the room and away from the walls giving cleaner operation and better heat distribution. The free circulation of air through the baseboard assures low operating and case temperatures. Element is free to expand and contract for quiet operation.

SAFE TO OPERATE AND CLEAN—Thermal sensors located along the full length of the baseboard shut off the element automatically in the event normal operating temperatures are exceeded. They reset themselves when the overheating cause is removed. Even when the snap-off front panel is removed for periodic cleaning, all electrical connections are totally enclosed and safe. Heater case temperatures are low for maximum safety to children and pets. No sharp corners or edges.

RUGGED CONSTRUCTION—Built to last with new zinc coated steel providing corrosion resistance and a better, stronger base for the high gloss, scuff-resistant, baked enamel finish. Zinc's self-healing action prevents the spread of rust beneath the surface even if the tough enamel is scratched; makes heaters suitable for damp or coastal regions. Six bends rigidize the front panel, and reinforcements every 12 to 18 inches along the top add strength. Rugged enough for commercial and institutional use.

ATTRACTIVE APPEARANCE—High-gloss, neutral beige, baked enamel finish blends with any decor. Smooth, clean lines are eye-pleasing.

DIMENSIONAL DATA—All units are 6 $\frac{3}{4}$ " H, 3 $\frac{1}{4}$ " D at top, 1 $\frac{3}{4}$ " D at bottom. No floor clearance required. Only 1" front clearance necessary.

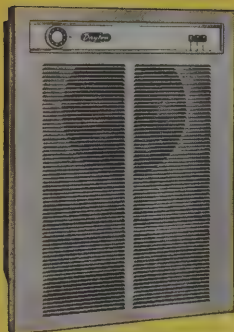
ACCESSORIES AVAILABLE—SPST and DPST built-in thermostats and matching duplex outlet & corner sections are listed on facing page.

TEN-YEAR LIMITED WARRANTY on heater element. All other parts warranted for one year. See Limited Warranty Policy in Index.

DAYTON ELECTRIC BASEBOARD HEATING UNITS (*)

Length Inches	BtuH	Total Watts	Watts Per Ft.	Amps.	Stock No.	Retail	Each	Shpg. Wt.
28	1706	500	250	2.1	2E447	\$32.20	\$18.59	9
40	2559	750	250	3.1	2E448	40.10	23.13	12
48	3412	1000	250	4.2	3E177	44.20	25.52	14
60	4265	1250	250	5.2	3E178	52.80	30.47	18
72	5118	1500	250	6.3	3E179	59.50	34.34	21
96	6824	2000	250	8.3	3E180	74.90	43.20	29
120	8530	2500	250	10.4	3E181	92.20	53.19	35

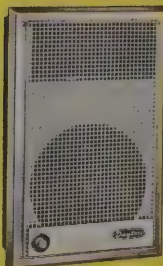
(*) Specifications shown are for units operated on 240V. Operation on 208V will result in 25% lower BtuH, total watts, and watts per foot; Amps will be 13% less.



Nos. 2E438 thru 2E441

A \$55.30 No. 2E438

FAN-FORCED, HEAVY-DUTY WALL HEATERS
240/208V, 2000 to 4800W



Nos. 2E434 & 2E435

B \$28.52

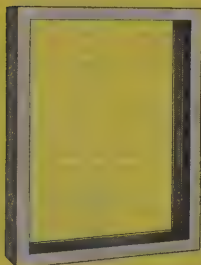
1500W FAN-FORCED WALL HEATERS
120 & 240/208V



Nos. 2E432 & 2E433

C \$20.29

1000W RADIANT WALL HEATERS
120 & 240/208V

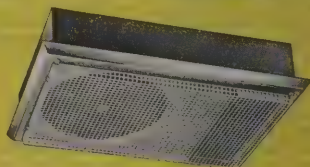


Nos. 2E444 & 2E443

D \$5.50 No. 2E443

SURFACE MOUNT HOUSINGS

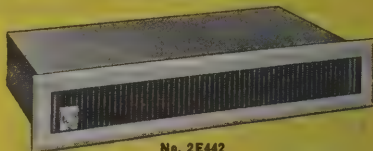
**ALL
MODELS
UL
LISTED**



Nos. 2E436 & 2E437

E \$26.85

FAN-FORCED CEILING HEATERS
1500W, 120 & 240/208V



No. 2E442

F \$52.58

LOW-SILHOUETTE FAN-FORCED
500-2000W, 120/240/208V

A HEAVY-DUTY, FAN-FORCED WALL HEATERS—240/208V, 2000-4800W

Heavy duty wall heaters suitable for heating large areas such as family rooms, basements, garages, entranceways, enclosed porches, etc. Specially designed counterflow grille directs air downward toward the center of room for even heating. Balanced, aluminum fan propeller and thermally protected motor are matched for quietness and efficiency. Nickel chrome heating element is heavy duty for efficient heat transfer, has safety over-heat protection. Built-in hydraulic thermostat provides accurate temperature control from 40 to 100°F. Off, Heat and

Fan Only selector pushbuttons; Off position disconnects heater from power source, Fan Only allows circulation of air without heat. Durable baked enamel brown finish with gold trim. Unique tilt-action bracket assures fast, easy installation in new or existing construction. When recess mounting is impractical, use No. 2E444 surface mount housing, (D) listed on facing page. Ample electrical knockouts provided for easy wiring. Overall, 21 3/4" H x 15 1/2" W x 4" D. Wall opening required, 19 3/4" H x 14 3/4" W. 240/208V, 60 Hz. UL listed.

Watts		BtuH		Amps		Stock No.	Retail	Each	Shpg Wt.
240V	208V	240V	208V	240V	208V				
2000/1500		6826/5120		8.3/6.3		2E438	\$88.50	\$55.30	19
3000/2250		10,240/7677		12.5/10.8		2E439	95.00	59.24	19
4000/3000		13,652/10,240		16.6/14.2		2E440	101.80	63.35	20
4800/3500		16,382/11,946		20/16.8		2E441	111.50	69.21	21

FOR 120 AND 240/208 VOLTS



[B] FAN-FORCED WALL HEATERS—120 & 240/208V, 1500W

Provides fast supplemental heat for bath, nursery, family or recreation rooms, workshop, garage, etc. Heavy duty fan with thermally protected motor assures low-noise operation. Finest nickel chrome element delivers instant heat, has safety over-heat protection. Dependable bi-metal thermostat with 50 to 120°F range. Attractive, bright finish, fingerproof grille is

easily removed for cleaning. Units can be installed in vertical or horizontal position. Designed for recessed installation in 14½ x 9" wall opening. When recessed mounting is impractical, use No. 2E443 surface mount housing, listed below. Three electrical knockouts for convenient wiring. Heater overall is 15½ H x 10 W x 4½" D. UL listed.

Watts(*)	BtuH(*)	Volts, 60 Hz	Amps(*)	Stock No.	Retail	Each	Shpg. Wt.
1500	5120	120	12.5	2E434	\$44.80	\$28.52	7
1500/1125	5120/3839	240/208	6.2/5.4	2E435	44.80	28.52	7

(*) No. 2E435 specifications are for 240 & 208V respectively.

[C] RADIANT WALL HEATERS—120 & 240/208V, 1000W

Radiates comforting heat automatically, silently. Excellent for bathroom, nursery, utility room, etc. Attractive bright finish, fingerproof grille for safety, sheathed tubular element for long life. Element has safety over-heat protection. Adjustable, bi-metal thermostat has 0° to 100°F range. Has beige finish frame for recess

mounting in 14½ H x 10½" W wall opening. Extends only ½" from wall surface. Heater case finished in beige baked on enamel. Can be mounted on wall surface. Only 2" deep overall. Two knockouts, back and bottom for easy installation. Overall, less finish frame, 12¾ H x 8¾" W; with finish frame, 15¾ H x 11¾" W. UL listed.

Watts(*)	BtuH(*)	Volts, 60 Hz	Amps(*)	Stock No.	Retail	Each	Shpg. Wt.
1000	3412	120	8.4	2E432	\$33.00	\$20.29	4
1000/750	3412/2559	240/208	4.2/3.6	2E433	33.00	20.29	4

(*) No. 2E433 specifications are for 240 & 208V respectively.

[D] SURFACE MOUNT HOUSINGS FOR WALL & CEILING HEATERS

Use when recessed installation of heaters is impractical. Can be mounted on most wall surfaces—brick, concrete, cement block, wood, plaster, etc. Simply fasten housing to wall,

mount heater in housing for a neat finished-appearance installation. Durable baked enamel finish. Steel construction. For Dayton heaters listed below.

For Dayton Heaters	H	W	D	Finish	Stock No.	Retail	Each	Shpg. Wt.
2E438, 2E439, 2E440, 2E441	21½"	16¾"	4"	Brown	2E444	\$14.90	\$9.42	5
2E434, 2E435, 2E436, 2E437	15¾"	10¾"	3"	Beige	2E443	8.70	5.50	3

[E] FAN-FORCED CEILING HEATERS—120 & 240/208V, 1500W

Designed for recessed ceiling installation in bathrooms, hallways, kitchen, workshop, etc. Can also be used as wall heater. Whisper quiet fan with thermally protected motor gently circulates heated air. Heavy duty nichrome heating element heats instantly, has safety over-heat protection. Stainless steel frame with

bright finish, fingerproof grille for safety. Thermostat not included—order No. 2E174 wall thermostat. When recessed heater installation is impractical, use No. 2E443 surface mount housing listed above. Three electrical knockouts. Overall, 15½ H x 10 W x 4½" D. Opening required, 14½ H x 9" W. UL listed.

Watts(*)	BtuH(*)	Volts, 60 Hz	Amps(*)	Stock No.	Retail	Each	Shpg. Wt.
1500	5120	120	12.5	2E436	\$41.50	\$26.85	7
1500/1125	5120/3839	240/208	6.2/5.4	2E437	41.50	26.85	7

(*) No. 2E437 specifications are for 240 and 208V respectively.

[F] FAN-FORCED LOW SILHOUETTE HEATER—120/240/208V, 500-2000W

Versatile heater fits under kitchen cabinets, bathroom vanities, in the soffit and other areas where conventional heater placement is a problem. Single unit offers wide choice of outputs; can easily be internally connected for five wattages and three voltages in table below. Bonded-in element has safety over-heat protection, fan motor has thermal protection. Plug-in element and fan assembly simplifies installation. Blackouvered grille hides heater when installed in cabinet toe space. Beige louvered trim plate, included, can be used to conceal rough-in opening in soffit or other visible area. For automatic

control, order No. 2E445 built-in thermostat listed below. Overall, 3½ H x 22¼ W x 11¼" D. Trim plate, 4½ H x 24¼" W. Opening required, 3½ H x 22¾ W x 12" D. UL listed. Shpg. wt. 12 lbs.

No. 2E442. Retail \$84.30. Each.....\$52.58

Volts	Watts	BtuH Output
120	500/1000/1500/2000	1706/3412/5120/6826
240	1000/2000	3412/6826
208	750/1500	2559/5120

BUILT-IN THERMOSTAT for low silhouette heater listed above. Provides 40° to 100° F adjustable temperature range. Mounts on left side of heater (see illustration). Fast-acting hydraulic type. Easily installed. Shpg. wt. 9 oz. No. 2E445. Retail \$16.40. Each.....\$10.11

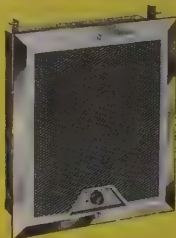
BROAN BUILT-IN ELECTRIC HEATERS

For 115V, 60 Hz. Thermally Protected Elements. Fan Forced



A No. 2E075
\$26.63

**1250 WATTS
CEILING MOUNTED**



B No. 2E018
\$31.27

**1200 WATTS
WALL MOUNTED**



C No. 1E716
\$41.31

**1500 WATTS
WALL MOUNTED**

A 1250 WATT CEILING HEATER

Surface-mounted, 4266 BtuH Broan ceiling heater is easily installed in new bathroom construction or remodeling. 14 dia. x 3½" deep—quickly installed on standard ¾ or 4" ceiling outlet box. Double-duty fan cools unit as it helps

diffuse heat throughout room. Long-life, armored 1250W, 115V, 60 Hz heat element. Thermal protected against overheating. Anodized aluminum grille and housing. UL listed. Shpg. wt. 5 lbs. (150.)

No. 2E075. Retail \$45.20. Each.....**\$26.63**

B 1200 WATT WALL HEATER

Instant fan-forced heat, 4094 BtuH, at an economy price. Easy to install—10¼ W x 13 H x 4" D steel wall box has adjustable mounting brackets—only a hammer needed to secure in place. Three convenient knockouts. 12 x 14" nickel

grille. Built-in bimetal thermostat has temp. range of 30° to 120°F. Thermolink protected against overheating. 1200 watts, 115V, 60 Hz quick-heating element. UL listed. Shpg. wt. 11 lbs. (133.)

No. 2E018. Retail \$53.90. Each.....**\$31.27**

C 1500 WATT WALL HEATER

Provides fast heat for bathrooms, recreation rooms, etc. Rated 1500-Watts, 5118 BtuH, 115V, 60 Hz. Built-in, extra-sensitive hydraulic action thermostat. Sturdy steel wall box 10¼ W x 13 H x 4" D with adjustable mounting brackets. Three

convenient knockouts. 12 x 14 nickel plated, Uni-Fin grille projects only ¾" from wall and conceals fan and element. Thermolink protected against overheating. UL listed. Shpg. wt. 11 lbs. (TU-15.)

No. 1E716. Retail \$69.00. Each.....**\$41.31**

LP GAS INFRARED LIVESTOCK BROODER HEATER

7000 BtuH on Propane or Butane. For Hog Farrowing and Finishing Pens
100% Gas Shut-Off. Consumes Less Than One Gallon of Propane in 12 Hours



Provides efficient area heat keeping litter and bedding warm and dry, yet allows sow to be kept at proper temperature. Also useful as a chick brooder. Does a more efficient job of spot heating than electric cables or water pipes and is immune to mid-winter power failures. Infrared rays heat objects not surrounding air, thus saving fuel by concentrating heat only where needed. Heater can also be used for other applications requiring area heating such as in pump rooms, barns, garages, etc. Units have ceramic burners with stainless steel protective grid, polished aluminum reflector and cast iron burner chamber. Gas valve has 100% safety shut-off on flame failure; meets AGA requirements. Gas valve has ¾" FPT inlet connection. ¾" gas cock also included. Air inlet filter screen can be removed for cleaning. Heater can be suspended by chain or rigid mount (not included). Natural aluminum finish. 4Hx8½Wx15"L. Shpg. wt. 8 lbs.

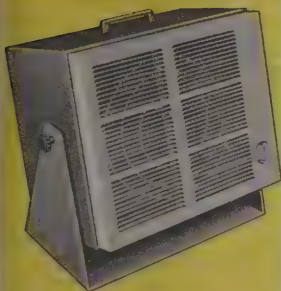
No. 2E456. Heater. Retail \$67.00. Each.....**\$51.26**

ADDITIONAL COPIES OF GRAINGER MOTORBOOK AVAILABLE

Are there other people in your organization who qualify for a Grainger MotorBook? If so, contact your local Grainger Sales Office/Warehouse for copies, or write to: W. W. Grainger, Inc., Dept. F13, 5959 W. Howard St., Chicago, Illinois 60648.

3 TO 5.6 KW, 1-PHASE ELECTRIC UNIT HEATERS

10,239 to 19,107 BtuH. Universal Mounting Bracket Included
Totally Enclosed, Finned, Sheathed Elements. Fan Forced



Dayton

\$76.79

5 KW, 240V

Versatile single-phase, utility-duty electric unit heaters have many of the industrial grade features of Dayton heavy-duty 3-phase units. Can be mounted on wall or ceiling using universal mounting bracket furnished. Bracket also supports heater on table or floor. For easy installation, Nos. 3E039, 3E040, 3E041 & 3E081 are equipped with a 6 ft. grounded line cord and plug and a built-in hydraulic thermostat with a 35 to 85°F. range. Nos. 3E039 & 3E081 require a NEMA 6-20R receptacle; Nos. 3E040 & 3E041 require a NEMA 6-30R receptacle. Nos. 3E042 & 3E082 have a combination 1/2" / 3/4" conduit knockout and access plate for permanent wiring. For automatic control of Nos. 3E042 & 3E082, order No. 2E173 wall thermostat.

Elements are corrosion resistant, totally enclosed, finned sheathed type for long life and reliability. Heated air is circulated by quiet, built-in fan powered by 1050 RPM industrial rated, totally enclosed, shaded pole motor with sealed bearings. 54° to 67°F heat rise. Automatic-reset thermal cut-out disconnects element and motor from power if normal operating temperature is exceeded. Finished in high-gloss beige and brown enamel. 14 1/16" H x 15 1/16" W x 12 1/16" D. UL listed.

LIMITED WARRANTY: Five years on elements, one year on all other parts. See Limited Warranty Policy in Index.



WALL OR CEILING MOUNT

KW	BtuH	Volts 60 Hz	Line Amps	Fan CFM	Stock No.	Retail	Each	Shpg. Wt.
3.0	10,239	208	14.1	180	3E081	\$129.00	\$77.23	29
3.0	10,239	240	12.5	180	3E039	129.00	77.23	31
5.0	17,065	208	24.0	235	3E041	149.00	88.96	34
5.0	17,065	208	24.0	235	3E082(*)	128.10	76.79	30
5.0	17,065	240	20.8	235	3E042(*)	128.10	76.79	34
5.6	19,107	240	23.3	235	3E040	149.00	88.96	34

(*)Thermostat not included, order No. 2E173 Wall Thermostat.

UNVENTED GAS-FIRED INFRARED HEATERS

Fuel Savings of More Than 20% Compared to Non-Radiant Type Heating
30,000 to 90,000 BtuH on Natural Gas. LP Gas Models Available on Special Order

Dayton

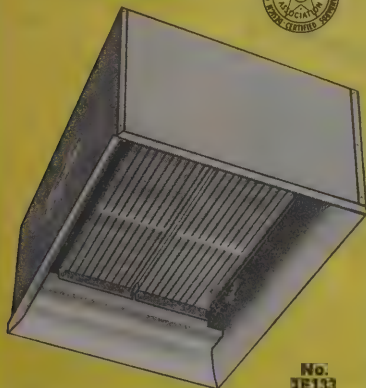


\$167.00

30,000 BtuH

These highly efficient infrared heaters are widely used for total and spot heating in factories, warehouses, garages, foundries, literally hundreds of applications. Simplest yet most rugged heater of this type. Requires only 50 to 75% input of conventional heating systems. No warm-up time. Imparts instant, uniform heat to people and objects, not to surrounding air; ideal for areas with large heat losses. Installation costs are low because light weight units can be suspended on chains, or steel brackets hung from ceiling, walls, beams, etc. No blowers, venting or duct work. Heaters feature superior ceramic grid of medium porosity with high mechanical strength and thermal shock resistance. Maximum air inspiration from efficient venturi tubes. Stainless steel rods amplify infrared radiation.

High-quality, non-corrosive materials used throughout. Venturi tubes, baffle and ceramic retainers are stainless steel; plenum chamber and frame are aluminumized steel. Housing is aluminum; requires only minimum clearance to combustibles. Equipped with 100% automatic gas and air safety shut-off control, pressure regulator and main gas cock. Continuous electronic ignition assures reliable operation. All units acceptable by FIA and FM insurance agencies. Radiating face temperature is 1700°F. AGA Certified. 1/2" NPT gas line and 120V, 60 Hz power required. Can be controlled by remote thermostat (order No. 2E347).



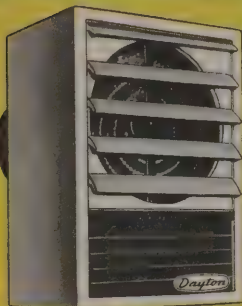
**No.
3E133**

BtuH Input	Radiant Surface Square Inches	Dimensions H W D	Stock No.	Retail	Each	Shpg. Wt.
30,000	85	29 1/2" 16 1/2" 17"	3E132	\$256.00	\$167.00	32
60,000	170	27 23 17"	3E133	328.00	214.40	42
90,000	255	30 27 17"	3E134	400.00	261.47	52

PHONE YOUR ORDERS TO GRAINGER'S FOR TIME-SAVING PICK-UP

Dayton**5 to 50 KW, 1 & 3-PHASE HEAVY-**

All Units Equipped with Built-In, Prewired Contactors. Adjustable Discharge Louvers Heavy Duty, 17,065 to 170,650 Btu/H. All Units 60 Hz. Ceiling or Wall Mounted. Fan Forced

**\$118.24**

No. 3E083

Designed for heavy-duty, continuous or intermittent use. Industrial, institutional, commercial and farm applications. Heavy-duty, industrial rated, totally enclosed motors. Elements are corrosion resistant, totally-enclosed, finned sheathed type. Extra-reliable, manual reset thermal protector disconnects heater if normal operating temperatures are exceeded. Adjustable louvers give precise control of air direction. Cases are made of zinc coated steel finished in high-gloss beige enamel. Contactors (and transformers, 480V only) factory installed and prewired.

All heaters are 60 Hz. 3-phase models are phase balanced. Air in-out has from 44° to 80°F heat rise. 240 and 208V models have motor and control circuit voltages same as heater. 480V models have 120V motor and control circuit with built-in 480/120V transformer. For thermostat control, order either No. 2E347 wall thermostat or No. 2E272 built-in thermostat. All heaters have 5/16 x 2" threaded stud and castle nut located at center of gravity on top of heater for hanging. For wall or ceiling mounting, order appropriate No. 2E265 or No. 2E359 wall/ceiling bracket. To suspend heater from two 1/2" threaded rods, order No. 2E266 suspension bracket. UL listed. Request Bulletin 802.

LIMITED WARRANTY: 5 years on element, 1 year on all other parts. See Limited Warranty Policy in Index.

Quality Features of Dayton Electric Unit Heaters

ELEMENT:

Totally enclosed finned. Large area and long length assure lower, even operating temperatures and longer life.

ELEMENT SHROUD:

Element fills entire shroud creating a pressure chamber between element and blade for uniform air flow over entire element. No air goes around; all air goes through element.



This



Not this



Not this

SAFETY THERMAL OVERLOAD:

Disconnects motor and element if normal temperatures exceeded. Manually reset.

TRANSFORMER:

Factory installed and wired for motor and controls. Eliminates extra wiring.

THREADED STUD:

Mounting to factory or customer's bracket is easy. Swivels to any position.

CASE:

Corrosion resistant zinc coated heavy gauge steel with beige enamel finish.

Enamel

Zinc

Steel

Zinc

LOUVERS

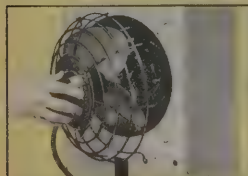
Individually adjustable from horizontal to 45° down.

CONTACTORS:

Built-in and wired on all units. Reduces labor and equipment cost.

THERMOSTATS

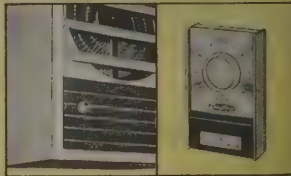
Heavy-duty hydraulic type, choice of heater-mounted (field installed kits) or wall mounted. Tamper-proof adjustments available.



Totally enclosed, industrial rated, thermal overload protected motors are on heavy protective guards easy to remove and disconnect for cleaning.

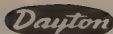


Heating and motor circuits factory sub-divided and fused to conform to latest National Electrical Code and Underwriters Laboratories Standard 573-1968. Controls, diagram and terminals easily accessible.



Choice of built-in or wall thermostats. See complete accessory listing on facing page.

DUTY ELECTRIC UNIT HEATERS



SPECIFICATIONS & PRICES FOR DAYTON HEAVY-DUTY ELECTRIC UNIT HEATERS

KW	BtuH	Volts 60 Hz	Phase	Amps Per Phase	Fan CFM	Temp. Rise, °F	Dimensions			Stock No.	Retail	Each	Shpg. Wt.
							H	W	D				
5.0	17,065	208	1	24.0	360	44	18"	13"	13 ¹ / ₁₆ "	3E083	161.80	\$118.24	32
5.0	17,065	240	1	20.8	360	44	18	13	13 ¹ / ₁₆	3E084	161.80	118.24	35
5.0	17,065	208	3	13.9	360	44	18	13	13 ¹ / ₁₆	3E020	171.00	127.37	32
5.0	17,065	240	3	12.0	360	44	18	13	13 ¹ / ₁₆	3E019	171.00	127.37	32
5.0	17,065	480	3	6.1	360	44	18	13	13 ¹ / ₁₆	3E032	201.00	149.45	45
7.5	25,598	208	1	36.0	525	44	18	13	13 ¹ / ₁₆	3E085	202.25	147.43	35
7.5	25,598	240	1	31.2	525	44	18	13	13 ¹ / ₁₆	3E033	202.25	147.43	35
7.5	25,598	208	3	20.8	525	44	18	13	13 ¹ / ₁₆	3E053	185.85	135.57	33
7.5	25,598	240	3	18.0	525	44	18	13	13 ¹ / ₁₆	3E034	185.85	135.57	36
7.5	25,598	480	3	9.0	525	44	18	13	13 ¹ / ₁₆	3E021	235.75	172.17	45
10.0	34,130	208	1	48.0	525	60	18	13	13 ¹ / ₁₆	3E086	221.00	160.83	40
10.0	34,130	240	1	41.6	525	60	18	13	13 ¹ / ₁₆	3E087	221.00	160.83	36
10.0	34,130	208	3	27.8	525	60	18	13	13 ¹ / ₁₆	3E054	221.00	160.83	36
10.0	34,130	240	3	24.0	525	60	18	13	13 ¹ / ₁₆	3E035	221.00	160.83	33
10.0	34,130	480	3	12.0	525	60	18	13	13 ¹ / ₁₆	3E027	257.00	187.32	45
15.0	51,195	208	3	41.6	750	70	20	15	17 ¹ / ₁₆	3E056	362.75	263.15	50
15.0	51,195	240	3	36.0	750	70	20	15	17 ¹ / ₁₆	3E036	362.75	263.15	50
15.0	51,195	480	3	18.0	750	70	20	15	17 ¹ / ₁₆	3E030	398.25	289.78	66
20.0	68,260	208	3	55.5	1240	51	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E057	524.25	381.72	96
20.0	68,260	240	3	48.0	1240	51	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E038	524.25	381.72	92
20.0	68,260	480	3	24.1	1240	51	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E037	531.75	389.26	108
30.0	102,390	208	3	83.3	2000	47	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E059	690.25	501.45	101
30.0	102,390	240	3	72.2	2000	47	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E058	690.25	501.45	101
30.0	102,390	480	3	36.1	2000	47	27 ¹ / ₁₆	21 ¹ / ₁₆	18 ¹ / ₁₆	3E060	705.75	514.30	120
50.0	170,650	208	3	139.0	2000	80	32 ³ / ₄	21 ¹ / ₁₆	18 ¹ / ₁₆	3E174	1031.75	748.31	129
50.0	170,650	240	3	120.0	2000	80	32 ³ / ₄	21 ¹ / ₁₆	18 ¹ / ₁₆	3E175	1031.75	748.31	127
50.0	170,650	480	3	60.2	2000	80	32 ³ / ₄	21 ¹ / ₁₆	18 ¹ / ₁₆	3E176	1102.25	800.79	144

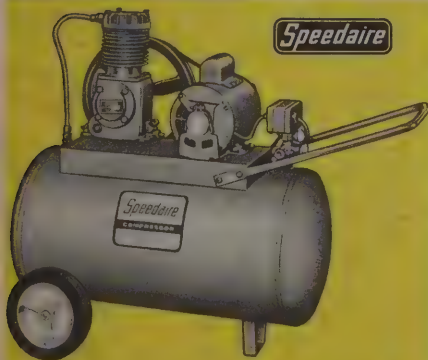
ACCESSORIES FOR HEAVY-DUTY ELECTRIC UNIT HEATERS

SPST WALL THERMOSTAT, 40° to 85°F, 10 oz. No. 2E347. Retail \$33.47. Each.....	\$16.74
BUILT-IN THERMOSTAT, 40° to 80°F range. 8 oz. No. 2E272. Retail \$16.25. Each.....	\$12.66
SUMMER FAN THERMOSTAT, 30 to 110°F, 12 oz. No. 2E206. Retail \$40.50. Each.....	\$16.84
WALL/CEILING BRACKET for 5 to 15 KW Units, 2 lbs. No. 2E265. Retail \$10.00. Each.....	\$7.70
WALL/CEILING BRACKET for 20 to 50 KW Units, 2½ lbs. No. 2E359. Retail \$16.25. Each.....	\$12.77
SUSPENSION BRACKET for All Units, 1¾ lbs. No. 2E266. Retail \$6.00. Each.....	\$4.49

SEE HEAT LOSS CALCULATING TABLE ON NEARBY PAGE

1/2 & 3/4 HP, 12 GAL. PORTABLE COMPRESSORS

2.64 to 4.1 CFM Displ. 1.7 to 2.5 CFM Free Air at 80 PSI. Dayton Capacitor Motor



\$146.26

1/2 HP Unit

Versatile, widely used compressors for spray painting, insecticide spraying, and air service for grease guns, blow guns, light duty air tools, inflation, etc. For farm, factory, garage, workshop, service trades. Unit comes completely assembled ready to plug in for service—simply add crankcase oil.

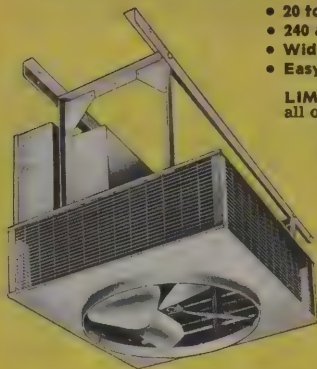
Single-stage piston-type compressor pump features: cast iron crankcase; die cast aluminum cylinders integrally cast to iron alloy sleeve for greater efficiency, cooling and service life; Swedish steel reed-type valves; and bronze bearings. Splash lubrication. 12 gal. non-code steel tank, rated 165 PSI maximum pressure.

Powered by Dayton 115/230V, 60 Hz, 3450 RPM capacitor motor with sleeve bearings. Safety valve pre-set to release at 100 PSI. Pressure switch cuts in at 50 PSI and out at 80 PSI. ¼" IPT manual shut-off valve at compressor outlet. 7 x 1.75" semi-pneumatic tires. Removable tubular steel handle. 8 ft. 16/3 grounded cord with molded plug. 1/2 HP model comes with 25 ft. air hose and tire air chuck. Gray enamel finish. Speedaire brand. Belt guards available, see Index under Guards, Belt Drive.

HP	Displ. CFM	Free Air CFM at 80 PSI	Bore	Stroke	Compressor RPM	Dimensions L W H	Stock No.	Retail	Each	Shpg. Wt.
1/2	2.64	1.70	1 ³ / ₈ "	2"	950	32" 10 ¹ / ₂ " 31"	1Z910	\$244.00	\$146.26	80
3/4	4.10	2.50	2 ³ / ₈ "	2"	860	32 19 30	3Z124	264.00	158.59	87

SEE WARRANTY INFORMATION ON PAGE 684

DOWN-BLOW 3-PHASE ELECTRIC UNIT HEATERS



HEATER WITH OPTIONAL MOUNTING BRACKET INSTALLED

Dayton vertical, down-blow, electric unit heaters are designed for use in high bay areas or in spaces where extended heat distribution using a minimal number of heaters is desired. They prevent stratification of heated air, decrease heat loss through roof area and provide increased air movement where necessary because of humidity or other factors. Widely used in factories, warehouses, gymnasiums, auditoriums, overhead crane bays, etc. All are UL listed.

DAYTON FEATURES

ENERGY SAVER CYCLE: Reduces operating costs and increases comfort by converting wasted high temperature ceiling heat into usable heat at floor area. Fan is automatically turned on when ceiling temperatures reach predetermined level, driving hot air to floor where it can be used. Reduces ceiling heat losses and operating cost. Requires thermostat listed under Optional Accessories.

ELEMENTS: Finned, sheathed type elements surround fan 360°. Air is drawn over elements for maximum efficiency.

TRANSFORMERS & CONTACTORS: Factory installed and wired. Eliminates cost of providing extra wiring. Only one power entrance circuit required. Large wiring access panel enables easy wiring and full view inspection for maintenance.

OVERHEAT PROTECTION: Thermal cutout disconnects motor and element circuits when normal operating temperatures are exceeded. Manual reset.

FAN: Balanced, axial-type fan assures quiet, efficient operation. Motors are resilient mounted, totally enclosed with automatic reset thermal protection. Shaded pole type on 20 KW, permanent split capacitor on 30 & 50 KW. For easy maintenance, motor can be removed from

- 20 to 50 KW, 68,260 to 170,650 BtuH. Heavy-Duty, Fan-Forced
- 240 & 480V. Built-In, Pre-Wired Contactors & Transformers
- Wide Range of Control Options Plus Energy-Saver Cycle
- Easy Installation Using Optional Mounting Bracket

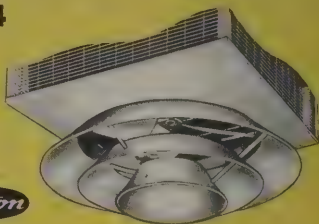
LIMITED WARRANTY: 5 years on element, 1 year on all other parts. See Limited Warranty Policy in Index.

\$325.14

No. 2E168



Dayton



OPTIONAL ANEMOSTAT DIFFUSER SHOWN INSTALLED

beneath heater without demounting or disassembling heater.

TEMPERATURE CONTROLS: Heaters can be controlled by either a 24V or line voltage thermostat mounted at eye level. See Optional Accessories.

INTERNAL CONTROLS: Power relays and motor are activated from a 24V sequencer. Heaters over 48A are wired for two stage operation. Fan runs for 90 seconds after elements are de-energized to purge heater of residual heat.

HEATER CASE: Heavy gauge steel with high-gloss beige baked enamel finish. Square design enhances appearance, permits easy handling and mounting.

OPTIONAL ACCESSORIES

MOUNTING BRACKETS: Heavy-duty for mounting heater to ceiling, roof, trusses or other support members.

No. 2E410. For 20 KW heater. Shpg. wt. 14 lbs. Retail \$42.00. Each.....**\$25.50**

No. 2E411. For 30 & 50 KW heaters. Shpg. wt. 18 lbs. Retail \$52.50. Each.....**\$32.00**

ANEMOSTAT DIFFUSER: For 30 & 50 KW heaters. Blends room air with heated air for widespread distribution without excessive drafts. Easily installed. Shpg. wt. 12 lbs.

No. 2E412. Retail \$109.25. Each.....**\$82.00**

MANUAL FAN SWITCH: Allows manual control of heater fan for summer air circulation. Fits standard switch box. Shpg. wt. 4 oz.

No. 6X439. Retail \$9.00. Each.....**\$6.75**

24V THERMOSTAT: 40 to 80°F. Shpg. wt. 12 oz.

No. 2E466. Retail \$15.77. Each.....**\$7.89**

LINE VOLTAGE THERMOSTAT: 55-90°F. 11 oz.

No. 2E347. Retail \$33.47. Each.....**\$16.74**

ENERGY-SAVER THERMOSTAT: 30-110°F. 12 oz.

No. 2E206. Retail \$36.80. Each.....**\$16.04**

KW	Volts Amps Per Phase						Dimensions			Stock			Shpg. Wt.
	BtuH	60 Hz(†)	Phase	Fan CFM	Floor Dia. @ Mtg.	Coverage* Ht. Rise °F	H	W	D	No.	Retail	Each	
20	66,533	240	48.0	1200	48"	18'	15"	20 1/2"	20 1/2"	3E168	\$451.25	\$325.14	86
	68,260	480	24.3	1200	48	18	15	20 1/2	20 1/2	3E169	479.75	359.08	96
30	102,390	240	74.3	3300	60	30	21 1/2	27	27	3E170	637.75	464.11	144
	102,390	480	36.6	3300	60	30	21 1/2	27	27	3E171	701.00	510.67	200
50	170,650	240	122.4	3300	68	24	21 1/2	27	27	3E172	974.25	704.15	149
	170,650	480	60.7	3300	68	24	21 1/2	27	27	3E173	991.25	717.08	178

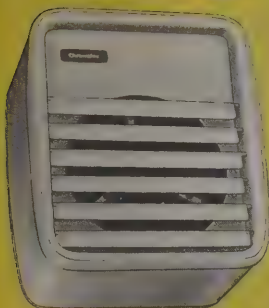
(*) Approximate; depends on heater location and surroundings such as obstructions, drafts, etc.

(†) 240 volt units will operate on 208 volts, with a 25% decrease in BtuH output.

EMERSON-CHROMALOX ELECTRIC UNIT HEATERS

5 to 15 KW, 17,065 to 51,195 BtuH. Heavy-Duty, Fan-Forced. Wall or Ceiling Mount
1 & 3 Phase. 240 & 480V. Built-In, Pre-wired Contactors on All Units. Adjustable Louvers

\$132.00
No. 2E415



High-performance, quality electric unit heaters for primary, supplementary, dual-system or spot heating applications. Used in factories, warehouses, garages, stores, aircraft hangars, power stations, etc. Completely self-contained and easy to install. All have built-in, pre-wired, heavy-duty, 3-pole, magnetic contactors. 480V units also have contactor control transformer eliminating need for separate 120V line.

Rugged construction assures long service life with minimum maintenance. Elements are copper-clad, finned, sheathed tube type; corrosion resistant, shock proof and widely spaced to prevent dirt clogging. Automatic-reset high limit control cuts off power to element if overheating occurs. Quiet, dynamically balanced fan has continuous-duty motor with vibration isolators and automatic reset thermal protection. Motor voltage is same as heater voltage. Adjustable louvers direct air flow. Cabinets are die-formed, welded steel with round corners and phosphate undercoat for corrosion resistance in industrial atmospheres. Neutral gray baked enamel finish.

Heaters mount on wall, ceiling or building support members. All models have recessed fasteners on top of cabinet for suspension mounting using threaded rods (not supplied). Optional 360° swivel mounting brackets, listed below, further simplify mounting and allow adjustment of air flow direction. Heater operation can be controlled using optional wall-type thermostat or field installed built-in thermostat listed below. UL listed. Emerson-Chromalox Brand.

KW	BtuH	Volts, 60 Hz	Phase	Amps Per Phase	Fan CFM	Air Throw	Temp. Rise °F	Dimensions			Mfr's. Model No.	Stock No.	Retail	Each	Shpg. Wt.
								H	W	D					
5.0	17,065	240	1	21	420	18"	42	16"	13 1/8"	11 1/4"	LUH-05-10	2E415	\$211.15	\$132.00	27
5.0	17,065	240	3	12	420	18	42	16	13 1/8	11 1/4	LUH-05-11	2E416	223.05	139.45	36
5.0	17,065	480	3	6	420	18	42	16	13 1/8	11 1/4	LUH-05-13	2E417	275.40	172.15	36
7.5	25,598	240	1	31	670	20	40	20 1/2	17 1/4	15	LUH-07-04	2E418	275.40	172.15	47
7.5	25,598	240	3	18	670	20	40	20 1/2	17 1/4	15	LUH-07-05	2E419	275.40	172.15	46
7.5	25,598	480	3	9	670	20	40	20 1/2	17 1/4	15	LUH-07-08	2E420	311.15	194.50	53
10.0	34,130	240	1	42	750	27	47	20 1/2	17 1/4	15	LUH-10-12	2E421	291.85	182.45	51
10.0	34,130	240	3	24	750	27	47	20 1/2	17 1/4	15	LUH-10-13	2E422	291.85	182.45	58
10.0	34,130	480	3	12	750	27	47	20 1/2	17 1/4	15	LUH-10-15	2E423	327.70	204.85	58
15.0	51,195	240	3	36	750	27	61	20 1/2	17 1/4	15	LUH-15-20	2E424	481.90	301.25	52
15.0	51,195	480	3	18	750	27	61	20 1/2	17 1/4	15	LUH-15-21	2E425	537.00	335.65	58

ACCESSORIES FOR EMERSON-CHROMALOX ELECTRIC UNIT HEATERS

SPST WALL THERMOSTAT. 40° to 85°F. 10 oz. No. 2E347. Retail \$33.47. Each.....	\$16.74
BUILT-IN THERMOSTAT. 55° to 105°F range. 1 lb. No. 6X436. Retail \$22.50. Each.....	\$14.05
WALL SWIVEL BRACKET for 5KW heaters. 7 lbs. No. 6X432. Retail \$13.00. Each.....	\$8.10
WALL SWIVEL BRACKET for 7.5 to 15 KW heaters. 16 lbs. No. 6X433. Retail \$24.85. Each.....	\$15.55
CEILING SWIVEL BRACKET for 5KW heaters. 2 3/4 lbs. No. 6X434. Retail \$6.60. Each.....	\$4.15
CEILING SWIVEL BRACKET for 7.5 to 15 KW heaters. 6 lbs. No. 6X435. Retail \$9.20. Each.....	\$5.80

SEE HEAT LOSS CALCULATING TABLE ON NEARBY PAGE

AUTOMATIC GAS PILOT RE-LIGHTER

Re-lights Pilot Electronically. For All Gas-Fired Equipment

\$22.06

Instantly senses pilot outage and provides constant electrical spark until pilot re-ignites—before safety shutdown occurs. Prevents accidental pilot outage due to draft, pressure changes, etc. Use with most gas heaters, furnaces, dryers, ovens and water heaters which incorporate a safety shutdown device. Highly recommended for use with Dayton gas unit heaters, especially on inaccessible installations. Operates on time-proved capacitor discharge principle. Unit consists of sensor/electrode element which mounts on pilot and control circuitry housed in fire retardant ABS plastic case. Installs easily; universal mounting hardware included. No changes to existing equipment necessary. 120VAC, 50/60 Hz, 25mA current consumption. 24" L electrode lead. Shpg. wt. 8 oz.

No. 2E338. Gas Pilot Relighter. Retail \$44.00. Each.....**\$22.06**



PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

Information on most major lines in Grainger's MotorBook (especially motors, blowers, fans, pumps, air compressors, etc.) is available for the asking. Let our salespeople know what you need. We are always pleased to provide product information that will help you promote sales.

PACKAGED ROOF-TOP GAS MAKE-UP AIR HEATERS

200,000 to 400,000 BtuH Input. Factory Assembled, Weatherproof. Screened Air Inlet
Natural Gas Fired. Stainless Steel Heat Exchanger. Air Mover and All Controls Included
For Industrial Buildings, Schools, Restaurant Kitchens, Gyms, Laundries, Dry Cleaners, etc.

Exhaust Fans and Roof ventilators create negative pressures inside of a building. This causes chimneys to reverse, air leakage into building around windows and doors, infiltration of dust and dirt, added strain on heating systems, customer or worker complaints or grievances about drafts, hard to open doors and numerous other problems if heated make-up air is not introduced into the building space. Dayton make-up air heaters are complete, weatherproofed, forced air furnaces for outdoor installation, specially designed for supplying fresh, tempered air to make up building or area air losses created by exhaust systems. Units provide a screened inlet for 100% outside air (inlet air hood shipped unassembled; easily set up). For use with natural gas only; all internal controls installed. AGA design certified. Operationally tested before shipment.

HEATER SELECTION

Make-up air heaters are not intended to heat buildings but rather to temper air introduced into building to replace air exhausted by fans or roof ventilators. Determine total CFM being exhausted from building. For industrial applications, school rooms, gymnasiums and nursing homes, multiply this CFM by 1.10 to slightly pressurize the building. On restaurant applications multiply the CFM by 0.90 so that the kitchen is at a slightly negative pressure to prevent cooking odors from entering the eating area. Result is CFM required for make up air. Select unit or units required to match this CFM. Temperature rise at required CFM must be sufficient to raise temperature of outside air on coldest day (design temperature) to 65°-75°F.

DAYTON FEATURES

CONTROLS: Robertshaw combination valve incorporates manual main gas valve, pilot adjustment, regulator and temperature sensing bulb which regulates outlet air temperature by modulating burning rate from minimum to maximum. Separate, electric, main gas solenoid valve. High limit control and electric glow coil pilot relighter with automatic, non-100% shut-off. Controls are 24V and include step-down transformer.

HEAT TRANSFER SYSTEM: Scientifically designed, multi-tubular style, all welded hermetically sealed heat exchanger constructed of E-3 stainless steel.

BURNER SYSTEM: Side access pull-out drawer contains die formed aluminized steel burners with double row flared ports and stainless steel insert. Cross-over ports integral with burners to provide smooth ignition. Group air shutter adjustment from control side allows regulation of flame characteristics. Lint free pilot burner with constant pilot flame.

AIR MOVER: Large, heavy-duty, belt-driven, centrifugal blowers with permanently lubricated ball bearings. Open, drip-proof, 115V, 60 Hz motors with adjustable pitch pulley. 1½ HP motor factory wired with contactor.

VENTING SYSTEM: Balanced pressure vent assures proper venting, regardless of wind direction, because the combustion air inlet and flue outlet are in the same pressure zone. Combustion air enters the unit directly below the special vent cap (packed separately).



PREPAID FREIGHT ON ALL UNITS

Dimension	7E013	7E014	7E015
Unit Width	35½"	48½"	61½"
Overall Length (†)	82½"	82½"	82½"
Unit Height	37½"	37½"	40½"
Outlet Width	26½"	39½"	52½"
Outlet Height	19½"	19½"	19½"
Curb Cap Width	40½"	53½"	65"
Curb Cap Length	58½"	58½"	58½"
Gas Connection (Nat.)	¾"	¾"	¾"
Filters, 1 or 2" thick (*)	16x20(2) 20x20(2)	20x20(2) 20x25(2)	20x20(6)

(*) Not supplied. (†) Including Inlet Air Hood.

CABINET: High-temperature green enamel over heavy gauge galvanized steel. Blower compartment has gasketed access panels. Control compartment has lift-away side access panels (right side, facing discharge).

MOUNTING: Units mounted on one piece perimeter style curb cap for roof-top installation.

CLEARANCES: 6" at side opposite controls. Control access side requires clearance equal to width of unit for burner drawer removal.

GAS SUPPLY: Minimum pressure of 5" water column and maximum of 14" water column.

FILTER ASSEMBLY: Filters slide easily in place. Use standard 1" or 2" filters; see table above for sizes. Filters not included; see index under Filters, Furnace.

TYPICAL SET-UP: Make-up air units should be interlocked with exhaust systems so that blower operation is concurrent with exhaust fan operation. Air temperature controller cycles gas valve to maintain constant discharge temperature (recommended outlet air temperature setting 65°-75°). When exhaust system is de-energized, electric gas valve closes and blower operation stops.

CFM @ 0.3" SP (†)	BtuH Input	BtuH Output	Blower RPM	Temperature Rise, °F	Blower Motor HP Amps	Stock No.	Each Retail	Each Freight Prepaid	Shpg. Wt.
1995-1390	200,000	150,000	675-603	70-100	1/3 6.0	7E013	\$1595.00	\$1020.86	682
2980-2315	300,000	225,000	670-602	70-90	1/2 7.8	7E014	2090.00	1337.57	847
3704-2770	400,000	300,000	675-625	75-100	1½ 20.0	7E015	2631.00	1680.37	1042

(†) Allowing for filters. (§) Freight prepaid.

BLOWER-TYPE AUTOMATIC GAS UNIT HEATERS

100,000 to 400,000 BtuH. Complete with Belt-Driven Centrifugal Blower, Motor, & Drive For Heavy-Duty Applications. Prepaid Freight on Shipments of 300 Lbs. and Over

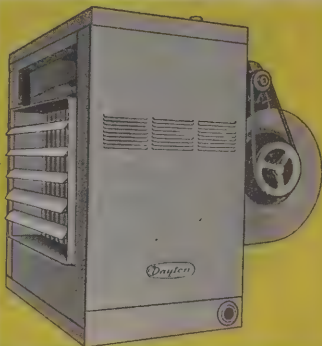
Natural-gas-fired blower-heater units for suspension mounting. Designed for use either with standard louvers, as shown, or with short duct runs. Maximum external static pressure, 0.2" W.C. Units include belt-driven, permanently lubricated, centrifugal blower, proper motor, and variable-pitch drive factory pre-set at minimum RPM; increase blower RPM depending on amount of duct work added to heater. 100,000 and 200,000 BtuH units have single blower, 300,000 and 400,000 BtuH units have twin blowers. Discharge duct flange and horizontal louvers included. Motors for 115V, 60 Hz, single-phase. Removable access door for easy servicing. Comes with all internal controls and wiring installed. Uses 24-volt thermostat.

Finest materials and workmanship. Long-life aluminized steel heat exchangers. Fully automatic and safe. Combination 24-volt gas valve which includes manual shut-off valve, pilot safety valve, and pressure regulator. Green-gray high-temperature enamel. AGA certified for natural gas. 100,000 BtuH unit has two $\frac{3}{4}$ " threaded pipe hangers; all others have two 1" threaded, free-moving couplings. Recommended installation height is 8 to 10 ft. from floor to bottom of unit. Write for bulletin 801.

Dayton

\$343.78

100,000 BtuH



BLOWER-TYPE UNIT HEATER SPECIFICATIONS

Stock No.	Blower Qty.	Blower Wheel Dia.	Blower Wheel W	60°F. Rise, 0.2" SP CFM	Max. RPM	90°F. Rise, Free Air CFM	Min. RPM	Motor HP	Motor Amps	Gas Inlet	Gas Flue
3E008	1	11"	10"	1233	650	822	505	1/6	3.4	$\frac{1}{2}$ "	6"
3E009	1	13	12	2467	665	1644	508	1/2	7.4	$\frac{1}{2}$ "	8
3E010	2	13	9	3700	570	2467	448	1/2	7.4	$\frac{3}{4}$ "	10
3E011	2	13	12	4933	545	3289	470	1	13.4	$\frac{3}{4}$ "	12

BLOWER-TYPE UNIT HEATER PRICES & DIMENSIONS

BtuH Input	Overall Dimensions			Duct Flange		O.C. Mtg. Dimen.	Stock No.	Retail	Each	Shpg. Wt.
	H	W	D	H	W					
100,000	33 $\frac{11}{16}$ "	22 $\frac{15}{16}$ "	40 $\frac{13}{16}$ "	19 $\frac{1}{2}$ "	13 $\frac{15}{16}$ "	15 $\frac{7}{8}$ "	3E008	\$580.00	\$343.78	274
200,000	37 $\frac{11}{16}$ "	35 $\frac{11}{16}$ "	43 $\frac{5}{8}$ "	19 $\frac{1}{2}$ "	26 $\frac{11}{16}$ "	28 $\frac{5}{8}$ "	3E009	800.00	477.31	414
300,000	37 $\frac{11}{16}$ "	48 $\frac{1}{2}$ "	43 $\frac{5}{8}$ "	19 $\frac{1}{2}$ "	39 $\frac{1}{8}$ "	41 $\frac{5}{8}$ "	3E010	1085.00	649.69	563
400,000	40 $\frac{11}{16}$ "	61 $\frac{1}{2}$ "	43 $\frac{5}{8}$ "	19 $\frac{1}{2}$ "	52 $\frac{3}{8}$ "	54 $\frac{3}{8}$ "	3E011	1390.00	831.04	717

TOTALLY ENCLOSED, U-FRAME CAPACITOR MOTORS

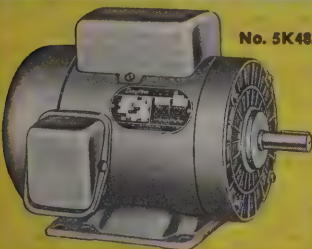
1 to 5 HP, 1800 RPM for Heavy-Duty Applications. High Starting Torque. Ball Bearings

No. 5K487

Dayton

\$184.80

1 HP



Dayton heavy-duty totally enclosed, fan-cooled capacitor-start motors built for dependable, efficient performance in dirty, moist and other adverse atmospheres. Widely used on pumps, laundry equipment, machinery, farm applications, air compressors, conveyors and other heavy-duty applications. 40°C ambient, 1.0 service factor, Class A insulation (55°C rise), continuous duty.

High starting torque with normal starting current characteristics—capacitor start type. NEMA 182 to 215 frames. Pre-lubricated, double-shielded ball bearings. Totally enclosed, cast aluminum end bells. Cast aluminum, perfectly balanced rotor. Solid, steel frame. Large conduit box. Meets NEMA specifications. Gray finish. Recognized by UL for construction under the Motor Component Recognition Program. CSA approved. Dayton brand.

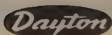
TOTALLY ENCLOSED, FAN-COOLED 1800 RPM, 115/230V, 60 Hz MOTORS

HP	Volts 60 Hz	NEMA Frame (See p. 18)	Full-Load Shaft Amps 230V	Stock No.	Retail	Each	Shpg. Wt.	COMPLETE with MAGNETIC STARTER		COMPLETE with MANUAL STARTER	
								Stock No.	Each*	Stock No.	Each*
1	115/230	182	7 $\frac{3}{8}$ " 6.9	5K485	\$231.00	\$184.80	49	7K225	\$235.80	7K257	\$210.64
1½	115/230	184	7 $\frac{3}{8}$ " 8.9	5K486	270.00	216.00	56	7K226	267.00†	7K258	241.84†
2	115/230	213	1 $\frac{1}{2}$ " 12.6	5K487	321.00	256.80	80	7K227	307.80†	7K259	289.10†
3	115/230	215	1 $\frac{1}{2}$ " 16.8	5K488	405.00	324.00	100	7K228	381.46†	7K260	356.30†
5	230	215	1 $\frac{1}{2}$ " 21.0	5K489†	563.50	442.80	120	7K275	514.47	7K376	489.31

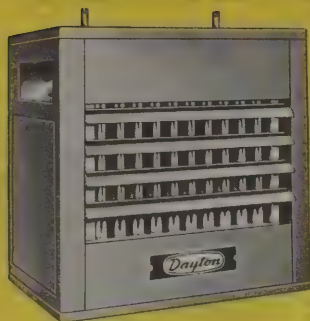
(*) Prices shown are for motors with 115 or 230V thermal protected starters. Specify voltage. Start-stop station included with magnetic starters. (†) Price is slightly higher where 115V is specified.

(f) Capacitor-start, capacitor-run type.

SEE WARRANTY INFORMATION ON PAGE 684

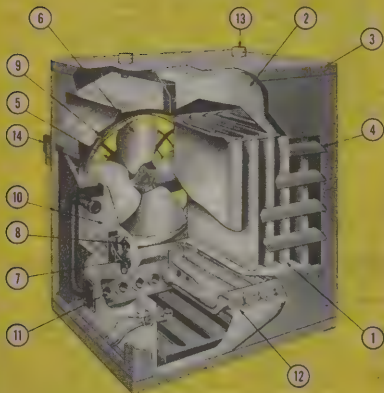


FAN-TYPE AUTOMATIC GAS-FIRED UNIT



\$157.76

25,000 BtuH

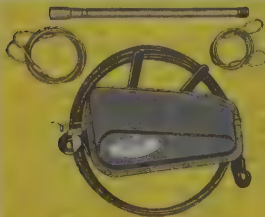


AGA Certified for Natural or LP Gases
25,000 to 400,000 BtuH. Long-Life Burners
For Factories, Warehouses, Garages, Stores
Prepaid Freight on Shipments of 300 lbs. & Over

Complete, low-priced, one-package, AGA certified, suspended heating unit for stores, offices, factories, garages, etc. Saves floor space, easy to install, requires minimum maintenance. Economical safe, clean. Removable access door for easy cleaning and servicing. Heater comes with all internal controls and wiring installed. Uses 24-volt thermostat (see listing on facing page) to eliminate expensive conduit installation. Green-gray high-temperature enamel finish. Recommended installation height is 8 to 10 ft. from floor to bottom of unit. Do not use with air duct. Write for bulletin 801.

1. **HEAT EXCHANGER:** 18 gauge aluminized steel; one vertical seam. Heat exchanger tube hellarc welded to heat exchanger top and bottom. Quality design assures long life.
2. **DRAFT DIVERTER:** Made of corrosion resistant aluminized steel.
3. **HOUSING:** Bonderized steel with baked-on green enamel finish.
4. **LOUVERS:** Independently adjustable for maximum air distribution. Stops prevent closure of louvers.
5. **MOTOR:** Automatic reset thermal protection. 115V, 60 Hz. Specially designed for each heater.
6. **FAN:** Dynamically balanced, aluminium air foil blade assures quiet, efficient operation.
7. **FAN SWITCH:** Has built in heat anticipator to assure positive fan delay.
8. **LIMIT SWITCH:** Prevents excessive outlet air temperature.
9. **FAN & MOTOR SUPPORT:** Exclusive vibration isolators provide true in-shear rubber isolation between fan and heater assuring quiet operation.
10. **AUTOMATIC GAS VALVE (not shown):** Premium quality 24VAC gas valve with 100% safety shut off. Meets local codes.
11. **AIR SHUTTERS:** Group air shutter adjustment (125,000 thru 400,000BtuH).
12. **BURNERS:** Stamped aluminized steel with stainless steel port divider for maximum efficiency (125,000 thru 400,000 BtuH).
13. **HANGERS:** Suspension is by free-moving pipe couplings on 25,000 & 125,000 thru 400,000 BtuH, threaded pipe on all other units.
14. **TRANSFORMER:** 24VAC transformer standard.

650-LB. CAPACITY WINCH PULLER WITH HOOKS



No. 6X449

\$55.97

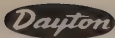
Easy to Operate, Needs Only 24-Lbs. Pressure on Handle to Pull or Haul Bulky Loads. Fully Portable

Multi-purpose wire rope winch-puller can be used for moving engines, bulky containers, construction equipment, freeing bogged down vehicles, landing boats, pulling wire fence, etc. Internal chucks provide positive locking grip on cable. All steel construction, has separate forward and reverse levers, cable release lever, anchor hook with safety latch and removable 1 5/8" pipe handle. Two wire rope anchor slings included: 5/32" x 3 ft. and 7/32" x 6 ft.; plus 3/16" x 30 ft. wire rope cable. Overall dimensions: 12 1/2 L x 9 H x 1 1/2 W. Shpg. wt. 8 1/2 lbs. Tirmate Brand.

No. 6X449. Winch Puller. Retail \$79.95. Each. \$55.97

Get Delivery from Stock on over 95% of the Products in this MotorBook
Grainger Availability and Service Help You Sell More and Net More Profits

HEATERS FOR SUSPENSION MOUNTING



NATURAL GAS FIRED DAYTON UNIT HEATERS

BtuH Input	Fan Dia.	CFM	Mtr. HP	Gas Inlet	Flue	O.C. Mtg. Dimensions	H	Overall W	D	Stock No.	Retail	Each	Shpg. Wt.
25,000	10"	425	4 Watt	1/2"	3"	11 3/4"	21"	15"	19"	3E935	\$270.00	\$157.76	68
50,000	12	850	1/40	1/2"	4	13 1/8"	26	22	23	3E837	310.00	183.11	114
75,000	16	1100	1/40	1/2"	5	15 1/4"	28	28	23	3E839	325.00	193.83	152
100,000	16	1400	1/20	1/2"	6	15 1/4"	30	28	23	3E841	370.00	220.22	178
125,000	16	1625	1/10	1/2"	6	15 3/8"	31	28	29	3E843	430.00	254.99	175
150,000	18	1850	1/10	1/2"	7	17	31	30	28	3E845	490.00	290.44	199
175,000	20	3000	1/8	3/4"	8	18 1/2"	36	34	30	3E867	560.00	334.08	211
200,000	20	3000	1/8	3/4"	8	18 1/2"	36	34	30	3E847	580.00	345.49	262
225,000	20	3000	1/8	3/4"	8	18 1/2"	36	34	30	3E868	610.00	363.21	279
250,000	16*	3190	1/10*	3/4"	9	36 1/4"	37	39	27	3E869	720.00	432.04	394
300,000	18*	3825	1/10*	3/4"	10	40 1/2"	37	43	28	3E871	820.00	491.38	428
400,000	18*	5300	1/8*	3/4"	12	51	39	53	29	4E003	1090.00	651.53	561

LP GAS FIRED DAYTON UNIT HEATERS

BtuH Input	Fan Dia.	CFM	Mtr. HP	Gas Inlet	Flue	O.C. Mtg. Dimensions	H	Overall W	D	Stock No.	Retail	Each	Shpg. Wt.
25,000	10"	425	4 Watt	1/2"	3"	11 3/4"	21"	15"	19"	3E936	\$270.00	\$157.76	67
50,000	12	850	1/40	1/2"	4	13 1/8"	26	22	22	3E838	310.00	183.11	114
75,000	16	1100	1/40	1/2"	5	15 1/4"	28	28	24	3E840	325.00	193.83	148
100,000	16	1400	1/20	1/2"	6	15 1/4"	28	28	24	3E842	370.00	220.22	175
125,000	16	1625	1/10	1/2"	6	15 3/8"	31	26	29	3E844	430.00	254.99	175
150,000	18	1850	1/10	1/2"	7	17	31	30	28	3E846	490.00	290.44	200
200,000	20	3000	1/8	3/4"	8	18 1/2"	36	34	30	3E848	580.00	345.49	269
250,000	16*	3190	1/10*	3/4"	9	36 1/4"	37	39	27	3E049	720.00	432.04	383
300,000	18*	3825	1/10*	3/4"	10	40 1/2"	37	43	28	3E050	820.00	491.38	441
400,000	18*	5300	1/8*	3/4"	12	51	39	53	29	3E051	1090.00	651.53	548

*) These units have 2 fans and 2 motors.

SNAP-ACTION HEATING THERMOSTAT

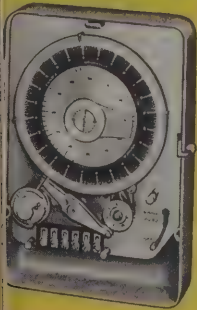


For All Gas Unit Heaters Listed Above. Adjustable Anticipator

\$6.15 Economical low-voltage thermostat for 24V control of gas, oil or electric heating systems. Convenient temperature selector at side of thermostat has 50°-90°F. range, 3/4°F. fixed differential. 50°-90° thermometer. Adjustable heat anticipator, 0.18 to 1.2 amp. Convenient slide-in terminals for easy wiring. Beige case with bronze and gold face plate. 3 3/4" W x 2 3/4" H x 1 1/4" D. Shpg. wt. 4 oz.
No. 2E156. Heating Thermostat; control circuit closes on temperature drop. Retail \$12.30. Each.....\$6.15

SEE HEAT LOSS CALCULATING TABLE ON NEARBY PAGE

ALARM-PROGRAMMING CLOCK CONTROL



Extremely Accurate, Easy to Set. Skip-A-Day Dial
Adjustable Pre-Warning and Main Signal

Dayton
\$84.29

Widely used by schools, institutions, offices, industry, etc. to control horns, bells, buzzers, volunteer fire alarms, etc. Ideal for programming audible signals. Single pole, single throw switching action. 24-hour day divided into 5 minute increments. Skip-A-Day feature permits suspension of operation for any 12 or 24-hour period starting at 6 AM or 6 PM of any day or days. Main and pre-warning signal adjustable 4 to 60 seconds. Prewarning signal adjustable 1 to 3 minutes preceding main signal. Large knurled dial knob for easy in-front setting. Indexing done with cams and precision gears which assures positive, accurate control over entire time range. Switch rated 5 amps, inductive, 125VAC, 60 Hz. Motor is heavy-duty synchronous type. Sealed-in mechanism lubricated for life. Sturdy drawn steel, wall-mounted indoor case with convenient knockouts. Hinged cover with hasp for seal or padlock. Two-tone gray gloss finish. 10 1/2" H x 7 3/4" W x 3 3/8" D. UL & CSA listed. Furnished with 9 regular trippers for Skip-A-Day, 8 regular trippers for prewarning and 24 half trippers for main signals. Single lever for Manual, Automatic or Off control. Shpg. wt. 7 1/2 lbs.

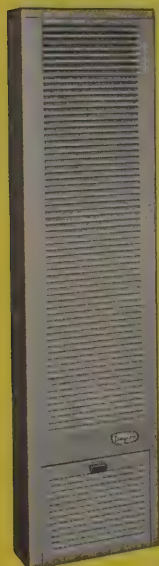
No. 2E212. Program Control. Retail \$138.50. Each\$84.29

SEE WARRANTY INFORMATION ON PAGE 684

VENTED AUTOMATIC GAS WALL FURNACES

25,000 to 60,000 BtuH. Single & Dual Models. AGA Certified

Dayton



Prepaid Freight on
300 lbs. & Over

\$117.79

25,000 BtuH

Dayton automatic recessed gas wall furnaces install between studs, above baseboard, on interior or exterior wall. Ideal heater for motel rooms, spare rooms, porches, closed-in breezeways—almost anywhere when floor space is limited. Single and dual burner types—dual type are for back-to-back installation using common flue. Single control. All heat exchangers are covered inside and out with A-19 porcelain enamel. Exclusive rectangular back-draft diverters. Service-free, slotted cast iron burner—will not stop up or become clogged by lint or dust. Burner ignites and extinguishes without a murmur. Control manifold rigidly mounted on main burner. Comes with Robertshaw thermostatic valve with modulating control. (Built-in pressure regulator not supplied on LP gas units.) Heater fits between 2x4 studs. 16" O.C. Unit must be vented vertically, using a standard B-W 4" oval vent. 1/2" gas connection. Finished in smart tan enamel. Has self-contained thermostat; no electrical power required. AGA certified.

NATURAL GAS—SINGLE & DUAL WALL FURNACES

BtuH Input	Type Unit	High	Wide	Deep	Stock No.	Retail	Each	Shpg. Wt.
25,000	Single	65 1/2"	17"	5 1/2"	3E913	\$183.00	\$117.79	82
35,000	Single	65 1/2"	17	5 1/2"	3E915	197.00	126.71	85
60,000	Dual	65 1/2"	17	5 1/2"	3E917	293.00	189.47	134

LP GAS—SINGLE & DUAL WALL FURNACES

25,000	Single	65 1/2"	17"	5 1/2"	3E914	\$183.00	\$117.79	80
35,000	Single	65 1/2"	17	5 1/2"	3E916	197.00	126.71	81
60,000	Dual	65 1/2"	17	5 1/2"	3E918	293.00	189.47	138

REAR REGISTER KIT readily makes a two room heater from either 25,000 or 35,000 BtuH units by directing heat into room opposite that in which furnace is installed. Damper provides easy adjustment from nothing to maximum. Add at any time. Shpg. wt. 3 1/2 lbs.

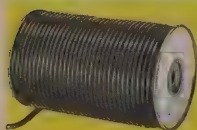
No. 2E058. Rear Register Kit. Retail \$15.00. Each.....\$9.54

BOOSTER FAN accessory fits all Dayton Vented Wall Furnaces. It cools the ceiling, warms the floor and circulates the warm air. This booster fan gives that extra boost needed to help heat those distant rooms and other hard-to-heat areas. Can be installed at original installation, or later. Fits on top of and matches all above Furnaces. 11" high. 115V, 60 Hz motor, automatic adjustable fan switch. Shpg. wt. 11 lbs.

No. 2E056. Booster Fan Accessory. Retail \$55.00. Each.....\$34.70

SERVICE CORDS ON SPOOLS

2 & 3 Conductor; SPT, SJ & S Types
18 to 12 Gauge. UL Listed



1W566
\$6.93
Lots 4

Handy spools of high quality, commercial-grade power supply cord. 2 and 3-cond. stranded wire. UL

listed. Rated 300 volts, except No. 1W317, 1W663 and 2W164 are 600V. Diamond Wire brand.

2-COND. CORDS ON SPOOLS

Ga./Cond.	Type	Color	Ft. On Spool	Stock No.	—Per Spool— Each	—Per Spool— Lots 4	Wt.
18/2	SPT-1	Brown	250	1W566	7.85	6.93	5 1/2
18/2	SJ	Black	250	1W311	17.75	15.81	13
16/2	SJ	Black	250	1W312	21.42	18.90	16
14/2	SJ	Black	250	1W925	28.22	24.90	22
14/2	S	Black	250	1W317	34.19#	—	38

(#) While stocks last.

3-COND. CORDS ON SPOOLS

16/3	SJ	Black	250	1W661	28.45	25.10	23
14/3	S	Black	100	1W663	22.42	19.78	19
14/3	SJ	Black	250	1W926	34.56	30.82	26
12/3	S	Black	100	2W164	31.03	27.38	24

1" FIBERGLAS INSULATION

Owens-Corning. 100-Ft., 24" Wide Rolls
For Insulating Pipe, Duct; Noise Dampening



\$12.68 100-Ft. Roll
Insulation
Lots 5

Most versatile, all-purpose insulation for use in home, farm and industry. Perfect for insulating pipes, heating and cooling ducts, etc.; also as weather stripping, noise damper, etc. Comes in 100-ft. rolls, 24" wide x 1" thick. Cuts with scissors or knife to custom fit any shape. Can be stapled, sewed, quilted, pasted, tacked or taped. Retail price 20¢ per running ft. Shpg. wt. 9 1/4 lbs.

No. 1W670. 100-Ft. Roll Owens-Corning Fiberglass. Each \$13.52; lots 5.....\$12.68

FREE FREIGHT

On all shipments of 300 lbs. and over unless otherwise stated. See Sales Policy in Index for full details.

Shipment made from nearest Grainger Sales Office/Warehouse.

VENTED AUTOMATIC GAS CONSOLE HEATERS

For Small Homes, Cabins, Motels, Apartments, Shops, Stores, Offices, Etc.
20,000 to 65,000 BtuH Units for Natural or LP Gas. AGA Certified



\$85.81
20,000 BtuH

Performance, modern styling, superior engineering, and competitive pricing make the Dayton your best gas space heater profit maker. They are widely used for heating small homes, add-on rooms, basements, motels, offices, stores, garages and many other areas that require primary or supplementary heat. Units deliver their full rated capacity efficiently and economically with complete safety. AGA certified for natural and LP gases. Dayton superior features include:

DIRECTIONAL LOUVERS—Warm air is directed forward into room—not up—assuring thorough circulation.

STEEL HEAT EXCHANGER—Gas-tight, one-piece welded construction. Multi-pass exchanger exposes cool air to large heated area and holds heat longer for maximum efficiency. Never any expansion or contraction noise.

CAST IRON BURNER—Silent, slotted-port burner is lint and dust-free for long life and efficient combustion. Will not overheat or warp.

TOP-MOUNTED CONTROL—Convenient fingertip temperature control eliminates bending.

TWO-WAY VENTING—Can be adjusted to vent horizontally or vertically as needed. External draft diverter with baffle vents efficiently and prevents hot spots.

100% SAFETY CONTROLS—Robertshaw safety pilot shut-off, gas valve, and temperature controls provided on all models. Location of sensing element prevents overheating. ½" NPT gas inlet connection.

CONVENIENT ACCESS DOOR—Large door makes pilot lighting and cleaning easy.

DECORATOR DESIGN—Modern, heavy-gauge steel cabinet is corrosion-protected by a Bonderite coating and is finished in beautiful silver beige enamel.

OPTIONAL POWER BLOWER—Boosts warm air circulation for hard-to-heat areas. See listings below.

NATURAL GAS VENTED CONSOLE HEATERS

BtuH Input	W	Dimensions H	D	Vent Size	Stock No.	Retail	Each	Shpg. Wt.
20,000	23"	20 3/8"	17 1/2"	3"	3E980	\$158.00	\$ 85.81	51
35,000	29 1/2"	26 3/8"	17 3/4"	4"	3E981	210.00	115.19	88
50,000	29 1/2"	26 3/8"	24 5/8"	4"	3E982	258.00	141.54	111
65,000	36"	26 3/8"	24 5/8"	4"	3E983	288.00	158.37	128

LP GAS VENTED CONSOLE HEATERS

BtuH Input	W	Dimensions H	D	Vent Size	Stock No.	Retail	Each	Shpg. Wt.
20,000	23"	20 3/8"	17 1/2"	3"	3E984	\$158.00	\$ 85.81	50
35,000	29 1/2"	26 3/8"	17 3/4"	4"	3E985	210.00	115.19	88
50,000	29 1/2"	26 3/8"	24 5/8"	4"	3E986	258.00	141.54	100
65,000	36"	26 3/8"	24 5/8"	4"	3E987	288.00	158.37	126

COUNTER FLOW BLOWER ATTACHMENT for 50,000 & 65,000 BtuH Heaters. Resilient mounted blower, starts automatically after heater reaches pre-determined temperature. Shuts off automatically. Blower features top control panel, 2-speed on-off motor switch, adjustable fan switch and summer switch. 115V, 60 Hz. 6 ft. cord. Shpg. wt. 12 lbs.

No. 2E076. Counter-Flow Blower for 50,000 and 65,000 BtuH heaters. Retail \$78.00. Each.....\$41.67

UP-FLOW BLOWER ATTACHMENT for 35,000 BtuH Heaters. Blower automatically starts after heater reaches pre-determined temperature. Shuts off automatically. 115V, 60 Hz. 6 ft. cord. Shpg. wt. 8 lbs.

No. 1E755. Up-Flow Blower for 35,000 BtuH heaters. Retail \$61.00. Each.....\$32.51

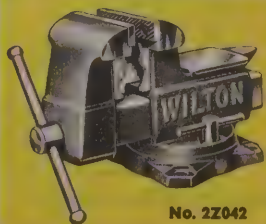
3 1/2" & 5" MEDIUM-DUTY VISES

Designed for light industrial and home workshop use. Both units are built to high standards, amply proportioned and engineered for many years of rugged service. Feature a 3/16" formed steel slide; replaceable serrated steel top jaws; built-in pipe jaws; a large ground anvil; and 220° swivel base with positive lock. No. 2Z042 3 1/2" vise also has a forming horn.

3 1/2" Jaws
\$30.90

Jaw Width	Max. Opening	Throat Depth	Pipe Capacity	Stock* No.	Retail	Each	Shpg. Wt.
3 1/2"	4"	3"	1/2"-2"	2Z042	\$41.20	\$30.90	17
5"	5 1/4"	3 3/4"	1/2"-2 1/2"	2Z473	75.90	56.93	45

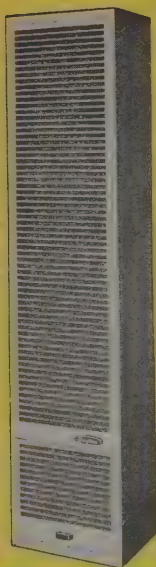
(*) Wilton Models 643 1/2 and 645 respectively.



No. 2Z042

UPRIGHT THRU-THE-WALL VENTED GAS HEATERS

30,000 BtuH. Sealed Combustion Chamber Eliminates Flue Surface Mounted, Easy to Install. AGA Certified

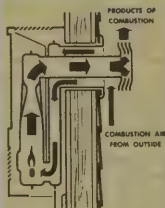


Dayton

\$166.77

Designed for heating motel rooms, porches, spare rooms, etc. and where floor space is limited and overhead vent is difficult. Installs flush on wall. Uses outside air for combustion and fume exhaust. Provides safe, clean heat. Quiet gravity flow design. Sealed combustion system avoids expensive flue work or special building alteration. 30,000 BtuH input, 24,000 BtuH output. Lifetime cast-iron burner is precision slotted for greater fuel economy. Whisper-quiet, self-cleaning burner ignites, burns and extinguishes with hardly a murmur. Large area heat exchanger heats efficiently. Reflective heat shield radiates warm air outward and prevents hot spots.

Installation is quickly and simply done. Requires a 10" dia. wall opening 54" above floor (O.C. min.). Vent and vent pipe are included for walls



VENT INSTALLATION

6 to 12" thick. Vent extends 5 1/4" beyond outside wall. Cabinet is 65 H x 15 W x 11" deep to wall, plus 15" (max.) vent overall, requires 2 1/4" floor clearance. Removable front grille for easy access to completely automatic temperature control and 100% safety valve. 1/2" gas inlet, AGA certified for natural and LP gas. Finished in smart, neutral tan enamel. No electrical connection needed. For automatic heat circulation, recommend installation of blower unit No. 2E177 listed below.

OPTIONAL BLOWER—Twin blower unit mounts inside furnace and blows out and down across the circulating air stream. Completely automatic. Adjustable fan switch. Squirrel-cage blower is powered by 115V, 60 Hz, 0.72 amp motor. Extra-quiet performance. Comes wired ready for installation, held by two screws. Shpg. wt. 8 lbs.

No. 2E177. Blower. Retail \$67.00. Each.....\$41.81

Type Gas	Stock No.	Retail	Each	Shpg. Wt.
Natural	4E007	\$260.00	\$166.77	104
L.P.	4E008	260.00	166.77	104

BtuH HEAT LOSS CALCULATING TABLE FOR CORRECT HEATER SIZING

Table below indicates Btu per hour heat loss per cu. ft. of interior space, at 0°F outdoor temperature. Multiply appropriate BtuH figure from table by cubic volume of area to be heated

to get total heat loss at 0°F. If minimum outdoor temperature expected is higher or lower than 0°F, multiply total BtuH heat loss at 0°F by the correction factor shown at bottom of table.

Type of Building	Major Qualifications	Minor Qualifications	Multiply Cubic Contents By
FACTORIES and WAREHOUSES, 65°F Inside	One Story	Skylight in Roof No Skylight in Roof	5.8 5.3
	No Skylights	Two Story	4.3
		Three Story	4.0
		Four Story	3.8
		Five Story	3.6
		Six Story	3.4
PUBLIC GARAGES, 60°F Inside	All Walls Exposed	Skylight in Roof No Skylight in Roof Heated Space Above	5.5 5.1 4.0
	Warm Party Walls on Both Long Sides	Skylight in Roof No Skylight in Roof Heated Space Above	4.7 4.4 3.0
	One Long Warm Party Wall	Skylight in Roof No Skylight in Roof Heated Space Above	5.0 4.9 3.4
	All Walls Exposed	Flat Roof Heated Space Above	6.9 5.2
	Warm Party Walls on Both Long Sides	Flat Roof Heated Space Above	5.8 4.1
	One Long Warm Party Wall	Flat Roof Heated Space Above	6.3 4.7
STORES, 70°F Inside			

CORRECTION FACTORS

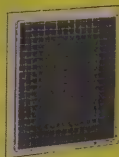
Min. Design Temperature	Correc-tion Factor	Min. Design Temperature	Correc-tion Factor	Min. Design Temperature	Correc-tion Factor
+50°F	0.29	+20°F	0.72	-10°F	1.14
+40°F	0.43	+10°F	0.86	-20°F	1.28
+30°F	0.57	0°F	1.00	-30°F	1.43

FLUSH VENT THRU-THE-WALL GAS HEATERS

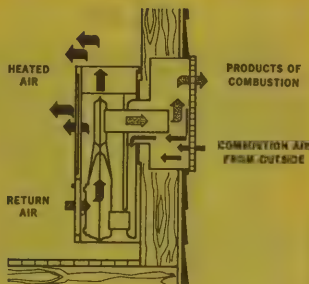
Sealed Combustion System Safety. AGA Certified. 11,000 to 33,000 BtuH. Natural or LP Gas



Dayton
\$103.64
11,000 BtuH



VENT
TERMINAL



VENT INSTALLATION

Dayton's sealed combustion heater provides sealed-flame safety with low cost installation. Vents through any outside wall and uses fresh outside air for combustion—does not consume room oxygen. Vent terminal is flush with outside wall, constructed of corrosion resistant material and designed to prevent pilot outage and water seepage. 22,000 and 33,000 BtuH units have aluminumized steel combustion chamber; 11,000 BtuH unit is cold rolled steel with bonderite coating. Angled directional grill flows air downward and across floor for efficient heating. Easily adapted to walls 6" to 12" thick. Requires 12" W x 14" H

opening. No duct work or venting needed. Fits under most windows. Requires 2" case-to-floor clearance. AGA certified. Cast iron, slotted port burner provides service-free operation. Whisper-quiet, self-cleaning burner ignites, burns and extinguishes with hardly a murmur. Large area heat exchanger heats efficiently. Reflective heat shield radiates warm air outward and prevents hot wall. Equipped with 100% safety valve and thermostatic head with adjustment knob located on top of cabinet. Finished in smart tan enamel for any interior decor. Bonderite undercoating.

NATURAL GAS THRU-THE-WALL HEATERS

BtuH Input	High	Wide	Deep	Stock No.	Retail	Each	Shpg. Wt.
11,000	22"	19 1/2"	8 1/8"	3E964	\$163.00	\$103.64	47
22,000	29 1/2"	34	9 3/4"	3E923	232.00	148.54	95
33,000	29 1/2"	34	9 3/4"	3E925	246.00	157.30	93

LP GAS THRU-THE-WALL HEATERS

BtuH Input	High	Wide	Deep	Stock No.	Retail	Each	Shpg. Wt.
11,000	22"	19 1/2"	8 1/8"	3E965	\$163.00	\$103.64	47
22,000	29 1/2"	34	9 3/4"	3E924	232.00	148.54	93
33,000	29 1/2"	34	9 3/4"	3E926	246.00	157.30	93

OPTIONAL BLOWER—Downflow power blower for 22,000 BtuH and 33,000 BtuH thru-the-wall heaters is easily added at any time. This completely wired blower mounts inside the cabinet with only 4 screws. Blower is controlled by a High-Low-Off switch. 115V, 60 Hz motor is equipped with automatic, adjustable, blower thermostat. Shpg. wt. 8 lbs.

40. 2E057. Blower. Retail \$51.00. Each.....\$31.94

WORKSHOP ELECTRIC SCREWDRIVER

Clutch Engages as Pressure is Applied to Drive Screws, Releases as Pressure is Withdrawn

Makes short work of installing or removing No. 12 slotted, hex or Phillips head screws in sheet metal as well as the hardest woods. No pre-drilling necessary in soft woods. Powerful 115V, AC/DC, 2.0 amp motor develops 25 no-load RPM. 100 to 1 gear reduction for high torque. Self-lubricating bronze bearings with ball thrust bearing on spindle. Rear-mounted reversing switch. Smooth finish aluminum motor housing. 8 1/2" long, 3" high. 3-cond. cord. Includes three 1/4" hex-shank bits—one for Phillips screws and two for slotted screws. UL and CSA listed. Shpg. wt. 3 1/2 lbs.

22218. Dayton Workshop Screwdriver. Retail \$50.60. Each \$35.42; lots 3.....\$33.65

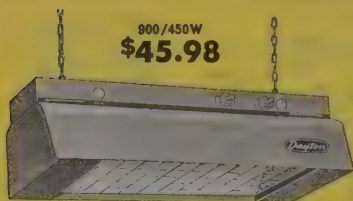


\$33.65
Lots 3

Central Air Conditioning Systems & Accessories Stocked for Immediate Shipment

SEE WARRANTY INFORMATION ON PAGE 684

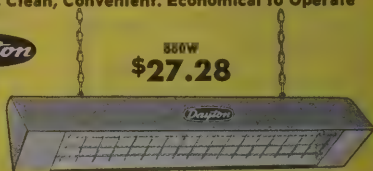
550 & 900/450 WATT 120V INFRARED HEATERS



900/450W
\$45.98

Efficient Quartz Tubes. Simple Chain Suspension
Safe, Clean, Convenient. Economical to Operate

Dayton



550W
\$27.28

Dayton multi-purpose electric infrared heaters provide efficient spot heating anywhere a 120V, 60 Hz electrical outlet is available. Widely used in farm buildings, garages, factories, truck docks, store fronts, terminals, etc. Does not produce fumes, vapors or gases.

Available in 550 watt single heat and 900/450 watt dual heat versions. 900/450W unit has two quartz tubes with separate switches to select single tube or dual tube operation. Both units use efficient quartz tubes with 5000-hour life expectancy. Uniform heat pattern of 45° included angle. Normally used 2 to 6 ft. from area to be heated. No waiting for warmup, practically no

maintenance. 6 ft. 2-wire cord set and simple chain suspension with S hooks allow installation practically anywhere, yet enable heater to be easily relocated. Heavy gauge steel housing finished in baked-on green enamel. Steel grid-type tube guard. Gold anodized reflector increases heater efficiency. Supplied with two 5 ft. chains and 4 S hooks. 550W unit is 3 H x 4 1/2 W x 22" L. 900/450W unit is 4 3/8 H x 5 3/4 W x 16 1/2" L.

Watts	Stock No.	Retail	Each	Shpg. Wt.
550	5H374	\$40.00	\$27.28	6
900/450	2V342	66.25	45.98	7

MOBILE 120 & 240V INFRARED HEATERS

2200/1100W, 120V & 6400/3200W, 240V, 60 Hz. Quartz Tube Type
Available with or without Hand Truck. Heavy-Duty Construction

Dayton

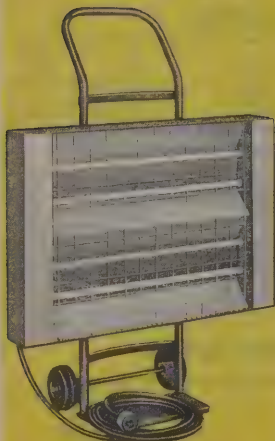
\$84.29

No. 5H373

These dual-heat infrared heaters have hundreds of uses in construction trades, farms, warehouses, garages, truck docks, paint and plaster drying, etc. Available with sturdy hand truck for complete portability or less truck for installation on an existing truck, or for permanent wall/ceiling mounting. Basic heater has universal mounting bracket and four eye hooks for chain suspension (chain not included). Does not produce fumes, vapors, gases or other harmful byproducts. 2200/1100W unit has two quartz tubes, 6400/3200W unit has four quartz tubes. Separate switches select high or low heat operation. Heaters must be installed with tubes in a horizontal position.

Both heaters use efficient quartz tubes with 5000-hour life expectancy. Uniform heat pattern of 45° included angle. Normally used up to 20 ft. from area to be heated. No waiting for warmup, practically no maintenance. 15 ft. 3-wire cord set with NEMA twist-lock plug. Heavy gauge, corrosion resistant steel housing finished in hi-temperature, baked-on green enamel. Chrome plated steel grid-type tube guard. Gold anodized reflector increases heater efficiency.

Hand truck supplied with portable models is commercial type with 5 1/2" dia. solid rubber wheels, Oilite bearings and 1/2" dia. axle. Sturdy, one piece arc-welded frame with 14 W x 7 D x 3/16" thick nose plate. Angled handles. Red enamel finish. See Index under Hand Trucks, Stock No. 1W615, for full description.



6400/3200W HEATER WITH
HAND TRUCK. No. 7H223

INFRARED HEATERS WITH HAND TRUCK

Watts	Volts 60 Hz*	H	Overall W	D	Stock No.	Retail	Each	Shpg. Wt.
2200/1100	120	44"	23"	12"	7H224	\$163.75	\$103.95	52
6400/3200	240	44"	32"	12"	7H223	277.95	176.48	35

INFRARED HEATERS LESS HAND TRUCK

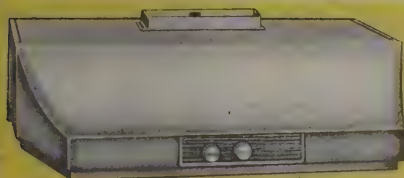
2200/1100	120	11"	23"	4"	5H373	\$127.50	\$84.29	13
6400/3200	240	22 1/4"	32"	4 1/4"	5H372	240.00	156.81	30

(*) 240V units will operate on 208V, with a 25% decrease in BtuH output.

Quantity Prices on Motors for OEM Production Use — Fast Delivery

Quantity motor prices are available on most of the 1,297 electric motor types listed in this MotorBook. Most standard motor needs

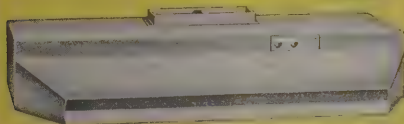
can be shipped from local Grainger stocks as required. Carloads kept in Chicago Distribution Center. Ask your Grainger salesman.



**A DUAL BLOWER HOODS
SOLID STATE CONTROL**

\$90.55

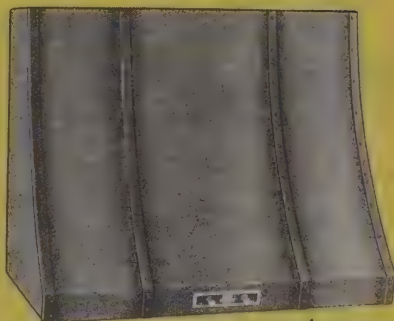
Lots 4, 30"
Enameled



B 2-SPEED HOODS

\$28.25 Lots 4

30" Ducted



**C CHUCK WAGON HOODS
SOLID STATE CONTROL**

\$91.70

Lots 4
Ducted

A 30 & 36" ADJUSTABLE SPEED DUAL BLOWER DUCTED HOODS

Available in 30 & 36" width with choice of four baked-on enamel finishes or stainless steel. Solid state control provides finger tip selection of desired blower speed to handle various ventilating requirements. Whisper-quiet, powerful, thermally protected dual blower delivers 375 CFM/5.5 sones horizontal, 400 CFM/6.0 sones vertical

discharge. Meets HVI and FHA requirements. 20 x 11^{1/16}" washable aluminum grease filter. 10" prismatic glass lens provides broad lighted area over range; uses 100W bulb (not included). 3^{1/4}x10" duct connection with backdraft damper. 120V, 60 Hz, prewired, UL listed. 8^{1/16}" H x 20^{1/2}" D. Broan 70000 series.

Hood Width	Harvest Gold Stock No.	Coppertone Stock No.	Avocado Stock No.	White Stock No.	Stainless Steel Stock No.	Retail	Each	Lots 4	Shpg. Wt.
30"	4C488	4C287	4C490	4C492	—	\$144.90	\$96.60	\$90.55	38
30	—	—	—	—	4C290	188.40	125.55	117.75	38
36	4C489	4C288	4C491	4C493	—	149.30	99.50	93.30	41
36	—	—	—	—	4C291	198.10	132.05	123.80	41

B 30 & 36" 2-SPEED DUCTED and DUCTLESS HOODS

30 & 36" multi-featured range hoods at an economy price. Choice of four baked-on enamel finishes. Ducted models (34000 series) have 3^{1/4} x 10" vertical or horizontal discharge and deliver 60 CFM/6.5 sones in either discharge position. Meets HVI & FHA requirements. Duct-free models (35000 series) have 10^{1/2} x 8^{3/4}" activated charcoal

filter to absorb smoke and odors. Air discharges through louvered vent away from cabinet and user. Quiet fan is powered by 2-speed thermally protected motor. 10^{1/2} x 8^{3/4}" washable aluminum grease filter on all models. Enclosed 75W light (bulb not included). 120V, 60 Hz, prewired, UL listed. 6 H x 18^{1/2}" D.

Hood Width	Type	Harvest Gold Stock No.	Coppertone Stock No.	Avocado Stock No.	White Stock No.	Retail	Each	Lots 4	Shpg. Wt.
30"	Ducted	4C486	4C200	4C240	4C401	\$45.20	\$30.15	\$28.25	13
36	Ducted	4C487	4C201	4C241	4C402	46.30	30.85	28.95	14
30	Duct-Free	4C285	4C198	4C245	4C403	47.30	31.55	29.55	14
36	Duct-Free	4C286	4C199	4C246	4C404	48.40	32.25	30.25	15

C 30" CHUCK WAGON ADJUSTABLE SPEED DUCTED and DUCTLESS HOODS

Stylish 30" wide canopy type hoods, available in four baked-on enamel finishes, for ducted or ductless installation. Solid state control provides fingertip selection of desired blower speed to handle various ventilating requirements. Ducted models (CR series) discharge vertically at 190 CFM/7.0 sones or horizontally at 220 CFM/8.0 sones, through 3^{1/4} x 10" duct. Meets HVI &

FHA requirements. Ductless models (CL series) have 11^{3/4} x 12^{1/4}" activated charcoal filter to absorb smoke and odors. Air discharges through louvered vent away from cabinet and user. Washable aluminum grease filter on all models. 150W floodlight capacity, all models (bulb not included). 115V, 60Hz. Prewired for fast installation. UL listed. 24 H x 21" D.

Hood Width	Type	Harvest Gold Stock No.	Coppertone Stock No.	Avocado Stock No.	White Stock No.	Retail	Each	Lots 4	Shpg. Wt.
30"	Ducted	4C495	4C497	4C496	4C494	\$146.70	\$97.80	\$91.70	40
30	Duct-Free	4C499	4C501	4C500	4C498	151.90	101.25	94.95	41

QUANTITY PRICES ON BROAN RANGE HOODS & FANS AVAILABLE ON REQUEST

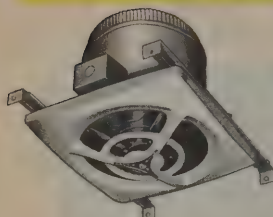
SEE WARRANTY INFORMATION ON PAGE 684



CEILING EXHAUST FANS

8 & 10" CEILING EXHAUST FANS

Ventilates Kitchens, Recreation Rooms, Etc.



\$24.80

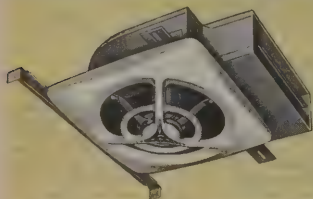
No. 4C209
Lots 4



Widely used for home ventilation. Easily installed—adjustable mounting brackets fit securely between ceiling joists. Handy outlet box. Anodized aluminum grille. 120V, 60 Hz thermal protected motor is rubber mounted to assure quiet performance. 8" fans connect to 8" round duct; 10" fans connect to 10" round duct, and with No. 4C207 damper/reducer can be connected to 8" round duct. UL listed.

Fan Dia.	CFM	Sones	Backdraft Damper	Grille Size	Housing Overall Dia.	Housing Overall L	Broan Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
8"	190	4.5	Incl.	11 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	475	4C208	\$41.40	\$27.60	\$25.90	6
8	200	4.5	Not Incl.	11 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	476	4C209	39.70	26.45	24.80	6
10	430	7.5	Not Incl.	14 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	7"	471	4C206	48.30	32.20	30.20	10

No. 4C207. BACKDRAFT DAMPER/REDUCER to 8" duct for No. 4C206, 10" ceiling fan. Shpg. wt. 3 lbs. (472). Retail \$12.10. Each \$8.05; lots 4.....\$7.55



8 & 10" CEILING OR WALL FANS

Quiet Ventilation for Kitchens, Family Rooms, Etc.

\$30.30

8", Lots 4



Features slim 3 $\frac{3}{4}$ " housing with adjustable mounting brackets that fit securely between ceiling joists, or 2x4" wall studs. Anodized aluminum grille. 120V, 60 Hz thermal protected motor is rubber mounted to assure quiet performance. Discharges through 3 $\frac{3}{4}$ x10" duct. Has built-in back draft damper. UL listed.

Fan Dia.	CFM	Sones	Grille Size	Housing Overall L	Housing Overall W	Housing Overall D	Broan Models	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
8"	200	5.5	11 $\frac{3}{4}$ "	14"	12"	3 $\frac{1}{2}$ "	465	4C210	\$48.50	\$32.35	\$30.30	8
10	320	7.5	14 $\frac{1}{2}$ "	16 $\frac{1}{2}$ "	13 $\frac{3}{8}$ "	3 $\frac{1}{4}$ "	461	4C211	64.30	42.85	40.20	12

BROAN TWIN BLOWER EXHAUSTER

270 CFM. For Ceiling or Soffit, Horizontal or Vertical

\$45.90

Lots 4



Two 5 $\frac{1}{4}$ " dia. "squirrel cage" blowers deliver 260 CFM/6.0 sones horizontally, 270 CFM/5.0 sones vertically for high performance in long ducts. Use for either horizontal or vertical discharge with 3 $\frac{3}{4}$ x 10" ducts. 8 x 8 x 14" steel housing with adjustable mounting lugs for plaster or dry wall. Use aluminum filter listed below. 10 $\frac{1}{2}$ x 16 $\frac{1}{2}$ " anodized aluminum grille. Back-draft damper. 1500 RPM, 120V, 60 Hz motor, UL listed. Shpg. wt. 16 lbs. (300.)

No. 2C575. Retail \$73.40. Each \$48.90; lots 4.....\$45.90

LIFETIME ALUMINUM FILTER

Installs behind grille of No. 2C575 Twin Blower.

No. 2C998. Wt. 5 oz. Retail \$4.00. Each \$2.65; lots 4.....\$2.50

QUANTITY PRICES ON BROAN RANGE HOODS & FANS AVAILABLE ON REQUEST

LIGHT-DUTY LINE VOLTAGE THERMOSTAT

SPST. Heat Anticipated. Built-In, Adjustable Dial Locks

\$16.74

Designed specifically for use with unit heaters, fan coil units, circulators, etc., of 120V or 240V rating. Styled with instrument appearance in spun-silver and black. Heat anticipated for narrow differential. Large easy to adjust knob with positive Off position on dial. Built-in adjustable stops to lock dial or provide minimum setting, maximum setting, or limited range setting. Range 40° to 85°F. 1°F differential. Open on rise. Large thermometer. Contact rating, 5.8A at 120VAC, 2.9A at 240VAC. UL listed. 4 $\frac{3}{4}$ H x 2 $\frac{7}{8}$ W x 1 $\frac{1}{8}$ " D. Shpg. wt. 11 oz.

No. 2E347. Line Voltage Thermostat. Retail \$33.47. Each.....\$16.74

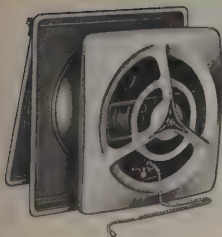




WALL EXHAUST FANS

8 AND 10" KITCHEN WALL FANS

Chain Operated—Opens Outer Door, Turns On Fan



\$32.45

8" Lots 4

Provides 100% waterproof installation. Chain opens outer door and starts fan motor. No wall switch to buy and install. Anodized aluminum grille. Housing adjustable to fit 5 to 10 1/2" walls. 120V, 60 Hz, thermal overload protected motor. Does not require outside weather hood. UL listed.

Fan Dia.	CFM	Sones	Grille Size	Housing Dia.	Broan Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
8"	330	6.5	11 1/4"	9 1/2"	486	4C214	\$51.90	\$34.60	\$32.45	9
10"	430	7.0	14 1/4"	11 1/2"	481	4C215	62.40	41.60	39.00	12

8 AND 10" AUTOMATIC WALL FANS

Automatic Backdraft Damper with Outside Weather Hood



\$23.95

8" Lots 4

10" fans have dual exhaust openings and dampers to provide maximum ventilation efficiency and prevent back drafts. 8" fans have weather hood with automatic damper. Anodized aluminum grille. 120V, 60 Hz, thermal overload protected motor. Housing adjustable to fit 5 to 10 1/2" walls. UL listed.

Fan Dia.	CFM	Sones	Grille Size	Housing Dia.	Broan Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
8"	160	5.0	11 1/4"	9"	499	4C335	\$38.30	\$25.55	\$23.95	9
10"	350	7.0	14 1/4"	11 1/4"	491	4C213	67.20	44.80	42.00	16

No. 4C213

10" BROAN MOTORDOR FAN

Automatic Motorized Outside Door Operation
Positively Eliminates Drafts and Rattles. 330 CFM



\$73.55

Lots 4



A long-time favorite of architects and engineers, Broan's 10" Motordor Fan delivers 330 CFM/4.0 sones and positively eliminates drafts or rattles. Motor-driven, insulated, outside door lined with 1/2" insulation—operates automatically with flip of wall switch. 12 1/4" square housing adjusts for walls 6" to 11" thick. 120V, 60 Hz, lifetime lubricated, thermal overload protected motor. Chrome plated 13 1/4" square grille. UL listed. Shpg. wt. 20 lbs. (11C.)

No. 2C124. Retail \$117.70. Each \$78.45; lots 4.....\$73.55

8" BROAN ROOM-TO-ROOM FAN

Supplies Air to Adjoining Room Thru Wall



\$26.15

Lots 4



Use with space heaters and room air conditioners to equalize temperature. Quiet, 120 CFM/4.5 sones air delivery. 9" diameter sleeve adjustable for 2 1/2" to 5" walls. Easily accessible outlet box and built-in switch for easy installation. 11 1/2" square grille on both sides finished in white baked enamel—can be painted to match room color. 120V, 60 Hz motor. UL listed. Shpg. wt. 6 lbs. (700.)

No. 2C573. Retail \$41.80. Each \$27.85; lots 4.....\$26.15

HOME VENTILATING INSTITUTE EMBLEM

The Broan ceiling and wall fans listed in this catalog are rated and certified by the Home Ventilating Institute to adequately ventilate specified room size, when properly installed. CFM ratings are at 0.1" SP for duct units and 0.03" SP for wall fans.



"FACTORY-FRESH" from GRAINGER'S



The 1,207 motor types listed in this MotorBook are "Factory Fresh," of the latest design and engineered for maximum job performance. Fact-Label on cartons gives full specifications and identification of motor. Buy motors from Grainger's with confidence. See Index under Motors.

QUANTITY PRICES ON BROAN RANGE HOODS & FANS AVAILABLE ON REQUEST

SEE WARRANTY INFORMATION ON PAGE 684



COLONY HOUSE FANS

Economical Kitchen and General Purpose Ventilators

8" VERTICAL-DISCHARGE FANS

Available with or without Built-in Back-Draft Damper

Discharges vertically through ceiling into 8" dia. duct. Model with damper is HVI certified for kitchens up to 80 sq. ft., bathrooms to 150 sq. ft., other rooms to 200 sq. ft. Non-damper model is HVI certified for kitchens up to 90 sq. ft., bathrooms to 165 sq. ft., other rooms to 225 sq. ft. 4-point adjustable hanger bars and conduit junction box facilitate installation; hanger bars span up to 24". Quiet 9-wing blade, 115V, 60 Hz impedance protected motor with 3-point, vibration-free rubber mounting. Anodized aluminum grille, brown enamel housing. Grille is 11 $\frac{1}{2}$ " sq., housing is 8 $\frac{3}{4}$ " dia. x 8 $\frac{1}{4}$ " D. UL listed. Shpg. wt. 6 lbs.

Damper	CFM	Sones	Broan Model	Stock No.	Retail	Each	Lots 4
Yes	160	6.0	478	4C382	\$35.00	\$23.35	\$21.90
No	180	6.5	479	4C383	33.00	22.00	20.65

8" SIDE-DISCHARGE FAN

For Ceiling or Wall Mounting. Back-Draft Damper

Slim-line housing fits easily between wall studs or ceiling joists. Discharges in 3 $\frac{1}{4}$ x 10" duct. Built in back-draft damper. 160 CFM/6.5 sonas. HVI certified for kitchens up to 80 sq. ft., bathrooms to 150 sq. ft., other rooms to 200 sq. ft. 4-point adjustable hanger bars and conduit junction box facilitate installation; hanger bars span up to 24". Quiet 9-wing blades, 115V, 60 Hz impedance protected motor with 3-point vibration-free rubber mounting. Anodized aluminum grille, brown enamel housing. Grille is 11 $\frac{1}{2}$ " sq., housing is 12 W x 14 L x 3 $\frac{1}{4}$ " thick. UL listed. Shpg. wt. 8 lbs. (466).

No. 4C384. Retail \$37.60. Each \$25.05; lots 4.....\$23.50

DEFINITION OF THE SONE & CFM/SONES COMPARISON OF BROAN UNITS LISTED

The sone is an internationally recognized unit of loudness. Sonas signify, in a single number, the total sound output of the unit being tested. One sone is approximately equal to the sound of a modern refrigerator in a quiet kitchen. HVI (Home Ventilating Institute) rates home ventilating equipment in sonas because sonas are

accurate, easy to use and compare. A 3-sone fan, for example, sounds twice as quiet to the human ear as a 6-sone fan. HVI limits kitchen fans of up to 500 CFM to 9.0 sonas and bathroom fans to 6.5 sonas. Multiple-speed fans must be rated for sound at top speed, although quieter lower speed ratings may also be shown.

CFM & SONE RATINGS OF BROAN RANGE HOODS

Broan Model	Horizontal		Vertical		Broan Model	Horizontal		Vertical	
	CFM	Sones	CFM	Sones		CFM	Sones	CFM	Sones
34000 Series	160	6.5	160	5.5	CR Series	220	7.0	190	7.0
70000 Series	370	5.5	400	6.0		—	—	—	—

CFM & SONE RATINGS OF BROAN VENTILATING FANS

Stock No.	CFM	Sones	Stock No.	CFM	Sones	Stock No.	CFM	Sones	Stock No.	CFM	Sones
2C124	330	4.0	4C209	200	4.5	4C374	50	3.0	4C381	70	3.5
2C573	120	4.5	4C210	200	5.5	4C375	50	2.5	4C382	160	6.0
2C575(*)	270	5.0	4C211	320	7.5	4C376	70	4.0	4C383	180	6.5
4C050	60	4.0	4C213	350	7.0	4C377	110	4.0	4C384	160	6.5
4C122	130	3.0	4C214	330	6.5	4C378	50	2.5	—	—	—
4C206	430	7.5	4C215	430	7.0	4C379	70	3.5	—	—	—
4C208	190	4.5	4C335	160	5.0	4C380	70	3.5	—	—	—

(*) Vertical ratings. Horizontal ratings are 260 CFM/6.0 sonas.

QUANTITY PRICES ON BROAN RANGE HOODS & FANS AVAILABLE ON REQUEST

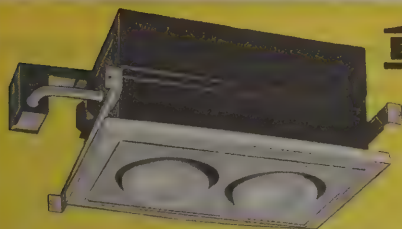
STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.

BULB-TYPE HEATERS and HEATER/VENTILATORS

1 and 2-Lamp Models; Use Standard R-40 Infrared Bulbs. UL Listed



Nos. 4C539, 4C540

BROAN



\$9.70

No. 4C537
Lots 4



Nos. 4C537, 4C538

Efficient, instant-heat, infrared bulb-type heaters widely used in bathrooms and dressing areas in residences, motels, cabins, etc. Available with or without built-in, HVI certified, 70 CFM/3.5 sones, ventilating fan. Heaters use standard, 250 watt, R-40 infrared bulbs (not included; see bulb listing below). Heater/ventilator models

have quiet, squirrel cage blower wheel driven by permanently lubricated, plug-in, shaded pole motor; connect to 4" dia. duct. All units have matte-white plastic grille, compact housings, convenient wiring junction box and four-point mounting brackets which span up to 24". UL listed for 60°C wiring.

Type	Bulb Quantity	Mfr's. Model	Housing			Grille			Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Heater Ventilator	1	162	8"	8 1/4"	5 1/4"	10"	10 1/2"	1 1/4"	4C538	\$37.40	\$24.95	\$23.40	8
	2	164	14 1/4"	8 1/4"	5 1/4"	16"	10 1/2"	1 1/4"	4C540	49.60	33.05	31.00	10
Heater Only	1	161	8"	8 1/4"	5 1/4"	10"	10 1/2"	1 1/4"	4C537	15.50	10.35	9.70	5
	2	163	14 1/4"	8 1/4"	5 1/4"	16"	10 1/2"	1 1/4"	4C539	26.50	17.65	16.55	9

250 WATT R-40 INFRARED BULBS FOR ABOVE HEATERS



\$1.62 For drying, warm-ups, thawing or as brooder bulb. No. 2V294 has red filter, break-resistant, hardened glass. 250W, 115V. Medium base. Sylvania. Shpg. wt. 8 oz. 10,000 hour rated life.

LIMITED WARRANTY: These bulbs are war-

ranted against defects in material and workmanship under normal use (rental service excluded) for the rated hour-life of the product, provided they were not physically or electrically misused. See Limited Warranty Policy in Index.

Glass	Stock No.	Retail	Each	Lots 8	Lots 12
Clear	1V971	\$2.70	\$1.84	—	\$1.62
Red	2V294	6.30	4.28	\$3.78	—

MIAMI-CAREY STANDARD BATHROOM CABINETS



[A] SLIDING-DOOR RECESS-MOUNT

\$45.25

Tubes Included



[B] SWING-DOOR RECESS-MOUNT

\$43.75

Tubes Included

Thick Quality Plate Float Glass Mirrors
Sliding Door and Swing Door Types
Built-In Lighting on All Models Listed

[A] SLIDING-DOOR RECESS-MOUNT STYLE — Smartly styled recess-mounting cabinet with top-mounted light fixture, 20 watt fluorescent tube included. Plate float glass mirror door on polystyrene tracks. Each door is 13 W x 18" H; 1/4" plate. Polished stainless steel frame, soft-tone finish on sides and interior. Convenience outlet and on/off switch. Two adjustable rounded-edge glass shelves. Steel cabinet is 27 1/2" W x 22 1/4" H x 4 3/4" D, requires 26 1/2" W x 19 1/2" H x 4" wall opening. Completely wired, ready for installation. 115V, 60 Hz AC. UL listed. Miami-Carey brand (CRP-2010-L). Shpg. wt. 32 lbs.

No. 3V242. Retail \$82.25. Each.....\$45.25

[B] SWING-DOOR RECESS-MOUNT STYLE — Quality-built bathroom cabinet has 1/8" thick, 16 x 22" plate float glass mirror with bright polished stainless steel frame. Side-mounted light fixtures for full, even illumination. Two 15 watt fluorescent tubes included. On/Off switch and convenience outlet. Two rounded-edge glass shelves. Steel cabinet, soft-tone finish. Overall 22 W x 22 1/4" H x 6 1/8" D, requires 14 W x 18 H x 3 1/2" D rough-in opening. 115V, 60 Hz AC. UL listed. Miami-Carey brand (CRP-306A-L). Shpg. wt. 24 lbs.

No. 3V240. Retail \$79.55. Each.....\$43.75

SEE WARRANTY INFORMATION ON PAGE 684



BATHROOM COMBINATIONS

Quality "Millionair" Series Fan-Heater-Light Units



A No. 4C378
\$22.70

Lots 4



A ECONOMY FAN & LIGHT UNIT

Quiet 50 CFM Fan. Takes up to 100W Light Bulb

Highly efficient, compact ventilator has dependable impeller design for quiet air movement. 50 CFM/2.5 sones. For bathrooms up to 45 sq. ft. Durable plastic grille is matte-white with unbreakable Lexan lens. Grille is 10 x 10 $\frac{1}{16}$ " H; conceals fan interior. Housing measures 8 x 8 $\frac{1}{4}$ x 5 $\frac{1}{4}$ " H; fits ceiling joists as small as 6". Convenient wiring junction and 4-point adjustable mounting brackets that span up to 24" for easy installation. Plug-in, permanently lubricated motor. Plastic back-draft damper/duct connector prevents rattles, makes taping easier. Fits 4" round duct. HVI certified, UL listed. Shpg. wt. 7 lbs. (678)

No. 4C378. Retail \$36.30. Each \$24.20; lots 4.....\$22.70



B No. 4C380
\$29.55

Lots 4

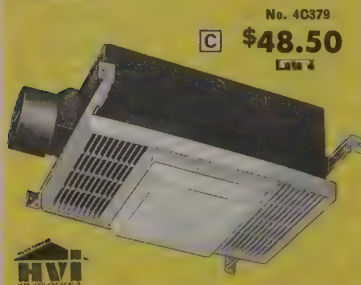


B DELUXE FAN & LIGHT UNIT

Quiet 70 CFM Fan. Takes up to 100W Light Bulb

Quiet, 70 CFM/3.5 sone fan and 100W light in a single unit. Top efficiency from centrifugal blower wheel driven by 115V, 60 Hz motor. Plug-in motor is permanently lubricated. Compact 5 $\frac{1}{2}$ " H x 8 $\frac{1}{4}$ " W x 14 $\frac{1}{4}$ " L housing and convenient wiring junction simplify installation. 4-point adjustable mounting brackets span up to 24". Plastic back-draft damper/duct connector prevents rattles, makes taping easier. Connects to 4" round duct. Matte-white plastic 10 $\frac{1}{4}$ x 15 $\frac{1}{2}$ " grille matches any decor, conceals fan interior. Unbreakable Lexan plastic light lens. Bulb not included. HVI certified, UL listed. Shpg. wt. 10 lbs. (657)

No. 4C380. Retail \$47.30. Each \$31.55; lots 4.....\$29.55



C No. 4C379
\$48.50

Lots 4

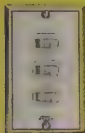


C FAN, HEATER & LIGHT UNIT

Two-Motor System. 70 CFM Fan, 1500W Heater

Features quiet fan, heater and 100W light in a single unit. 1500W heater and 70 CFM/3.5 sone fan have separate 115V, 60 Hz motors and centrifugal blower wheels for independent control and efficiency not found in single motor combination units (use No. 2C999 3-circuit switch listed on nearby page). Plug-in motors are permanently lubricated. Compact 5 $\frac{1}{2}$ " H x 8 $\frac{1}{4}$ " W x 14 $\frac{1}{4}$ " L housing and convenient wiring junction simplify installation. 4-point adjustable mounting brackets span up to 24". Plastic back-draft damper/duct connector prevents rattles, makes taping easier. Connects to 4" round duct. Matte-white plastic 10 $\frac{1}{4}$ x 15 $\frac{1}{2}$ " grille matches any decor, conceals fan interior. Unbreakable Lexan plastic light lens. Bulb not included. HVI certified, UL listed. Shpg. wt. 14 lbs. (655)

No. 4C379. Retail \$77.60. Each \$51.70; lots 4.....\$48.50



3-GANG TOGGLE SWITCH FOR BATH COMBINATION UNITS

Controls Heater, Fan and Light Individually. Gold Anodized Aluminum Wallplate

\$5.95 Three separate single pole, single throw toggle switches ganged to fit standard 2 x 4" box. Permits individual control of heater, fan and light, in any combination, of Nos. 4C378, 4C379, & 4C380 fixtures listed above. Can also be used for other applications. Gold anodized aluminum wallplate engraved Fan, Light & Heat. Each switch rated 10A at 125VAC, 5A at 250VAC. UL listed. Shpg. wt. 6 oz. (66)

No. 2C999. 3-Gang Switch. Retail \$9.50. Each \$6.35; lots 4.....\$5.95

Quantity Motor Prices for OEM Production — Available from Grainger

Quantity prices are available to original equipment manufacturers from Grainger on most of the 1,297 electric motor types listed in this MotorBook. Most standard

motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

QUANTITY PRICES ON BROAN RANGE HOODS & FANS AVAILABLE ON REQUEST

BATHROOM VENTILATORS

Quality "Millionair" Series for Quiet Efficiency



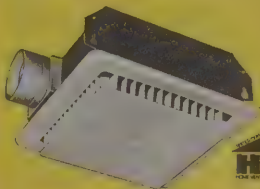
A 50 CFM ECONOMY VENTILATOR

Low in cost, high in quality. Has many of the features of higher priced Broan units. 50 CFM/3.0 sones. Efficiently ventilates bathrooms up to 45 Sq. Ft. Mounts in ceiling or in wall between studs. Quiet plastic impeller wheel, 115V, 60 Hz, plug-in, permanently lubricated motor. Simplified mounting bracket, convenient wiring junction. Housing is 8 x 8 1/4 x 3 3/4"H, anodized aluminum grille is 10 1/2" sq. Plastic back-draft damper/duct connector prevents rattles, makes taping easier. Fits 3" round duct. HVI certified, UL listed. Shpg. wt. 4 lbs. (688.)

INDIVIDUALLY CARTONED—No. 4C374. Retail \$17.90. Each \$11.95; lots 4.....\$11.20

BUILDER PACK—No. 4C481. Includes 6 motor assemblies, housings and grilles packaged in single carton. Priced per unit, sold only in cartons of 6. Retail \$16.80. Lots 6.....\$10.50

A \$10.50 No. 4C481
Lots 6



B 60 CFM VERTICAL DISCHARGE

Compactly designed for bathroom ventilation, discharges vertically into attic, no elbows needed. Ventilates bathrooms up to 55 sq. ft. Has attractive 8" dia. white plastic grille which matches any decor. Easy-to-install, 6 1/4" dia. x 5 1/2" H housing with built-in back draft damper. Easy connection to 6" round duct. 6" fan delivers 60 CFM/4.0 sones and is powered by 115V, 60 Hz motor with nylon thrust bearing. UL listed. Shpg. wt. 3 lbs. (673.)

No. 4C050. Retail \$20.90. Each \$13.95; lots 4.....\$13.05

No. 4C050

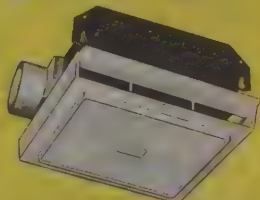
B \$13.05
Lots 4



C 70 & 50 CFM DELUXE VENTS

Medium priced, compact bathroom fans featuring plastic centrifugal blower wheel for quiet ventilation. Mount in ceiling or in wall between studs. No. 4C376 handles bathrooms up to 65 sq. ft., 70 CFM/4.0 sones. No. 4C375 is designed for bathrooms up to 45 sq. ft., 50 CFM/2.5 sones. 115V, 60 Hz plug-in, permanently lubricated motor. Housing is 8 x 8 1/4 x 3 3/4"H. Plastic back-draft damper/duct connector prevents rattles, makes taping easier. Connects to 3" round duct. Matte-white plastic 10 x 10 1/2" grille conceals fan interior. HVI certified, UL listed.

CFM	Broan Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
70	671	4C376	\$23.00	\$15.35	\$14.40	4
50	670	4C375	20.90	13.95	13.05	4



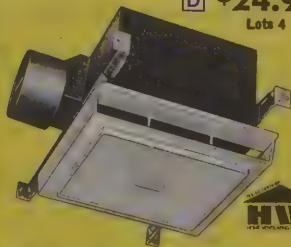
No. 4C377

D \$24.90
Lots 4

D 110 CFM DELUXE VENTILATOR

Broan's top-line bathroom fan features squirrel cage blower for high-volume exhausting at a low noise level. Handles the larger bathrooms found in modern homes—up to 100 sq. ft. 110 CFM/4.0 sones. 115V, 60 Hz, 1500 RPM, four pole, plug-in motor is permanently lubricated. Compact 8 x 8 1/4 x 5 3/4"H housing and convenient wiring junction. 4-point adjustable mounting brackets span up to 12". Connects to 4" round duct. White plastic 10 x 10 1/2" grille. HVI certified, UL listed. Shpg. wt. 8 lbs. (676.)

No. 4C377. Retail \$39.80. Each \$26.55; lots 4.....\$24.90



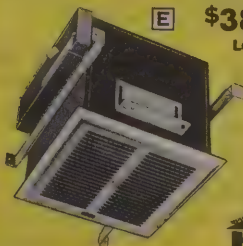
No. 4C122

E \$38.90
Lots 4

E 130 CFM LO-SONE VENTILATOR

Specialty designed and built for quieter performance than conventional ventilating blowers. Discharges horizontally or vertically through 3 1/4 x 10" duct. 130 CFM/3.0 sones. Powered by 1550 RPM, 115V, 60 Hz, shaded pole motor with sound absorbing rubber mountings. Sturdy 9 x 9" steel housing lined with sound-deadening fiberglass insulation and has adjustable mounting brackets for easy installation. Built-in damper. 10 1/2" sq. satin-finish aluminum grille. Shpg. wt. 12 lbs. (317.)

No. 4C122. Retail \$62.20. Each \$41.45; lots 4.....\$38.90



SEE WARRANTY INFORMATION ON PAGE 684



HOOD & FAN ACCESSORIES

A Variable-Speed Fan Controls

Continuously-variable, solid-state speed control for all Broan fans. Switch is rotary type with Off position. Built-in noise suppression; no TV or radio interference. Use with shaded pole or permanent split capacitor motors. No. 4C254 has constant voltage lead for operating Motordor fans. Installs in single-gang box. Simulated gold wallplate. 120V, 60 Hz. Shpg. wt. 1 lb. Big demand for these controls.

Max. Amps.	Mfr. Model	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
3	57A	4C331	\$12.10	\$8.05	\$7.55	4 oz.
5	54A	4C254	27.20	18.15	17.00	8 oz.

B Eave Elbow with Damper

For ranch-type homes and homes where eaves are on same level or lower than joists. Spring-loaded back-draft damper. Has $11\frac{1}{2} \times 5\frac{1}{4}$ " grille to keep out birds. For $3\frac{1}{4}$ " x 10" ducts. Use with No. 2C575, 4C210, 4C211 & 4C384 fans; and most Broan Range Hoods. Wt. 2 lbs. (430.)

No. 1C930. Retail \$15.40. Ea. \$10.25; lots 4, \$9.65

C Roof Jack with Damper

For round, square or rectangular ducts. Built-in screen and spring-loaded back-draft damper. Hood $10\frac{1}{2} \times 10\frac{1}{2}$ ". Flange $14\frac{1}{2} \times 16\frac{1}{2}$ ". Use with No. 2C575, 4C206, 4C208, 4C209, 4C210 & 4C211 fans; and most Broan Range Hoods. Enamel finish. Shpg. wt. $6\frac{1}{2}$ lbs. (435.)

No. 2C504. Retail \$15.60. Ea. \$10.40; lots 4, \$9.75

D Roof Jack for 3" Duct

For 3 or 4" round duct. Built-in bird screen and spring-loaded damper. Use with Broan bathroom ventilator Nos. 4C374, 4C375, 4C376, 4C377, 4C378, 4C379 & 4C380. Hood is $4\frac{3}{4} \times 7\frac{1}{4}$ ". Flange $8\frac{3}{4} \times 12$ ". Enamel finish. Shpg. wt. 1 lb. (635.)

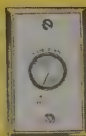
No. 2C905. Retail \$7.90. Each \$5.25; lots 4, \$4.95

Washable Aluminum Air Filter

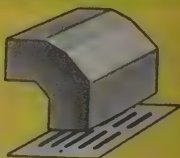
Installs behind grille on 8 and 10" Broan wall and ceiling fans. Prevents grease and dirt from accumulating on motor.

Fan Size	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
8"	2C697	\$2.70	\$1.80	\$1.70	4 oz.
10"	4C216	3.70	2.45	2.30	8 oz.

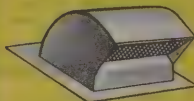
QUANTITY PRICES ON BROAN ACCESSORIES AVAILABLE ON REQUEST
ASK GRAINGER SALESMAN OR COUNTERMAN



A



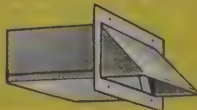
B



C



D



E



F

E Wall Cap with Damper

Mounts in outside wall and provides weather protection. Has spring-loaded damper. For $3\frac{1}{4}$ " x 10" duct. Use with No. 2C575, 4C210, 4C211 & 4C384 fans; and most Broan Range Hoods. 12 x $5\frac{1}{4}$ " flange. Enamel finish. Shpg. wt. 3 lbs. (440.)

No. 2C090. Retail \$9.20. Each \$6.15; lots 4, \$5.75

F Wall Cap for 3" Dia. Duct

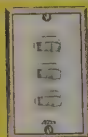
For 3" round duct. Has screen to keep out birds—but no damper. Use with Nos. 4C374, 4C375, 4C376 & 4C481 fans, 6 x 6" flange. Enamel finish. Shpg. wt. 12 oz. (640.)

No. 2C619. Retail \$5.50. Each \$3.65; lots 4, \$3.45

F Wall Cap for 4" Dia. Duct

For 4" round duct. Has built-in backdraft damper, 4" to 3" duct transition. Use with Nos. 4C377, 4C378, 4C379 & 4C380 fans, $6\frac{1}{2} \times 6\frac{1}{2}$ " flange. Aluminum. Shpg. wt. 8 oz. (642.)

No. 4C388. Retail \$7.40. Each \$4.95; lots 4, \$4.65



3-GANG TOGGLE SWITCH FOR BATH COMBINATION UNITS

Controls Heater, Fan and Light Individually. Gold Anodized Aluminum Wallplate

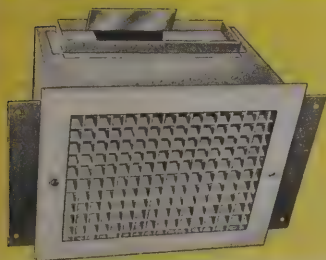
\$5.95 Three separate single pole, single throw toggle switches ganged to fit standard 2 x 4" box. Permits individual control of heater, fan and light, in any combination, of Nos. 4C378, 4C379 & 4C380 fixtures listed on nearby page. Can also be used for other applications. Gold anodized aluminum wallplate engraved Fan, Light & Heat. Each switch rated 10A at 125VAC, 5A at 250VAC. UL listed. Shpg. wt. 6 oz. (66.)

No. 2C999. 3-Gang Switch. Retail \$9.50. Each \$6.35; lots 4, \$5.95

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

EXTRA-QUIET CENTRIFUGAL CEILING FANS

250, 425 and 925 CFM at 0" SP. Very Low Sone Ratings. For 115V, 60 Hz
Centrifugal Blower Wheels Driven by 1050 RPM Motors. Acoustically Insulated Housings



Dayton

\$71.65

No. 4C530

Exceptionally quiet ceiling fans for residential, institutional or commercial applications. Highly suited for kitchens, recreation rooms, conference rooms, lobbies, classrooms, libraries, etc. Fans employ direct-driven centrifugal blower wheels powered by 1050 RPM, 115V, 60 Hz, ball bearing, shaded pole motors. Low RPM, rubber vibration isolators and acoustically insulated housings assure extra-quiet performance over entire operating range. See table below for CFM and sone ratings; air deliveries are based on AMCA test codes, attractive satin-finish, molded plastic grille has large free area, blends with any decor. Chatter-proof back-draft damper and easily accessible terminal box. Motor and blower assembly can be removed from heavy gauge steel housing for cleaning. Adjustable mounting brackets and hardware included. UL and CSA listed.

CENTRIFUGAL CEILING FAN CFM/SONES PERFORMANCE DATA

Stock No.	Free Air	0.05" SP	0.1" SP	0.125" SP	0.250" SP	0.375" SP
4C530	250/2.4	230/2.4	210/2.3	200/2.2	145/2.1	—
4C531	425/3.6	405/3.6	385/3.5	375/3.4	320/3.3	245/3.1
4C532	925/4.6	905/4.5	885/4.4	875/4.3	805/4.2	710/4.0

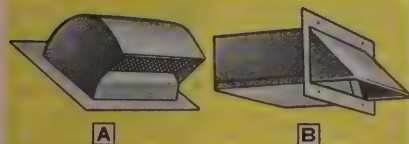
CENTRIFUGAL CEILING FAN SPECIFICATIONS and PRICES

Stock No.	Retail	Each	Shpg. Wt.	Vibration Level, Mils (*)	Magnetic Hum Level, db (†)	Motor HP	Amps	H	W	D	Discharge Flange
4C530	\$107.50	\$71.65	26	0.38	43	1/40	1.00	11 $\frac{1}{8}$ "	13 $\frac{3}{4}$ "	11 $\frac{7}{8}$ "	3 $\frac{1}{4}$ " x 10"
4C531	133.75	89.16	36	0.42	50	1/20	1.95	14	18	14 $\frac{1}{2}$ "	6 $\frac{1}{2}$ " dia.
4C532	270.95	180.64	53	0.48	52	1/10	3.80	14	23 $\frac{3}{4}$ "	14 $\frac{1}{2}$ "	5 $\frac{7}{8}$ " x 17 $\frac{7}{8}$ "

(*) Vibration amplitude in mils at operating speed. (†) Sound pressure level in decibels (referenced 0.0002 micro-bars) in the 2nd octave band, 5 ft. 0 in. from fan inlet in free space.

ACCESSORIES FOR ABOVE CEILING FANS

ROOF JACK AND WALL CAP



A ROOF JACK WITH DAMPER. For all ceiling fans listed above. For round, square or rectangular ducts. Built-in screen and spring-loaded back-draft damper. Hood 10 $\frac{1}{2}$ x 10 $\frac{1}{2}$ ". Flange 14 $\frac{1}{2}$ x 16 $\frac{1}{2}$ ". Enamel finish. Shpg. wt. 6 $\frac{1}{2}$ lbs.

No. 2C504. Retail \$15.60. Ea. \$10.40; lots 4, \$9.75

B WALL CAP WITH DAMPER. For No. 4C530 ceiling fan listed above. Mounts in outside wall and provides weather protection. Has spring-loaded damper. For 3 $\frac{1}{4}$ " x 10" duct. 12 x 5 $\frac{1}{4}$ " flange. Enamel finish. Shpg. wt. 3 lbs.

No. 2C090. Retail \$9.20. Each \$6.15; lots 4, \$5.75

GET HAND TOOLS FROM GRAINGER



Dayton socket sets, wrenches, screwdrivers, and related items are stocked at Grainger's for pickup and prompt shipment. Dayton hand tools have high acceptance for quality and durability with professionals everywhere. See Index under Tools, Hand.

AUTOMATIC WALL SHUTTERS

For Nos. 4C531 and 4C532 Ceiling Fans



Dayton

\$7.85

No. 2C526

Vanes open automatically when fan turns on, close when air flow ceases. Aluminum vanes are counter-balanced for easy opening, steel reinforced for strength, and felted for quiet, weathertight closure. Tie rod is attached to inside of aluminum vanes. Shutter frame is 18-gauge welded steel; finished in gray enamel. Frame is 4 $\frac{1}{8}$ " D with 1 $\frac{5}{8}$ " flange. Ample $\frac{1}{32}$ " dia. mounting holes.

For Fan Stock No.	Opening Required	Overall Square	Stock No.	Each	Shpg. Wt.
4C531	11" sq.	13 $\frac{1}{4}$ "	2C526	\$ 7.85	4
4C532	19 sq.	21 $\frac{1}{4}$ "	1C744	12.74	8

Liquid Pumps for Immediate Delivery

The wide variety of sump pumps, water systems, gear pumps, booster, and submersible pumps in this catalog is stocked at Grainger's for immediate shipment. See Index under Pumps for location of detailed listings.

AIR MOVING EQUIPMENT FUNDAMENTALS

AIR MOVING EQUIPMENT TERMINOLOGY

AMCA (Air Moving and Conditioning Association). A nationally recognized association which establishes standards, tests and certifies the performance of air moving devices.

Btu (British Thermal Unit). The amount of energy or heat required to raise the temperature of one pound of water one degree Fahrenheit.

BtuH. One Btu per hour.

CFM (Cubic Feet Per Minute). A measure of the volume flow rate, or air moving capability, of an air moving device. The volume of air moved per minute.

dB (Decibel). A measure of the sound produced by an air moving device.

dB(A). Sound level reading on the A-weighted scale of a sound meter. This A-weighting adjusts response of the meter to approximate that of the human ear.

Free Air Delivery. The conditions existing when there are no effective restrictions to air flow (no static pressure) at the inlet or outlet of an air moving device.

HP (Horsepower). The power required to drive an air moving device. HP required varies with system conditions—See Basic Laws below.

Plenum Chamber. An air compartment maintained under pressure to serve one or more distributing ducts.

RPM (Revolutions Per Minute). The speed at which the shaft of an air moving device is rotating.

SP (Static Pressure). A measure of the resistance to movement of forced air through a system or installation, caused by ductwork, inlets, louvers, etc. Measured in inches of water gage (W.G.); the height, in inches, to which the pressure will lift a column of water. For a given system, static pressure varies as the square of the flow rate. Thus, if flow rate is doubled, system resistance or static pressure is increased four times.

Venturi. A ring or panel, surrounding the blades on a propeller type fan, which improves fan performance.

BASIC LAWS FOR AIR MOVING EQUIPMENT

The performance of all fans and blowers is governed by certain rules of physics known as Fan Laws. CFM, RPM, SP and HP are all related to each other in a known manner and when one changes, all others change. For example, when CFM is changed, RPM, SP and HP will also change. CFM is the variable most commonly changed in an air moving system, therefore the following example of fan law application is based on a change from an existing CFM to a new CFM.

1. To determine performance at a new CFM, first calculate the ratio of the new CFM to existing CFM (new CFM divided by existing CFM):

$$\text{Ratio} = \frac{\text{CFM new}}{\text{CFM existing}}$$

2. To determine new RPM, multiply ratio of step No. 1 times existing RPM:

$$\text{RPM new} = \frac{\text{CFM new}}{\text{CFM existing}} \times \text{RPM existing}$$

3. To determine new SP, multiply ratio of step No. 1 times itself, times existing SP:

$$\text{SP new} = \left(\frac{\text{CFM new}}{\text{CFM existing}} \right)^2 \times \text{SP existing}$$

4. To determine new HP required, multiply ratio of step No. 1 times itself twice, and then times existing HP:

$$\text{HP new} = \left(\frac{\text{CFM new}}{\text{CFM existing}} \right)^3 \times \text{HP existing}$$

SAMPLE CALCULATIONS

Existing conditions are 5000 CFM, 1000 RPM, 0.5" SP, 0.5 HP motor.

New CFM desired is 6000.

$$\text{Ratio} = \frac{6000}{5000} = 1.2$$

2. Calculate new RPM: $\frac{6000}{5000} = 1.2$, therefore new RPM = 1000 x 1.2 = 1200 RPM.

3. Calculate new SP: $\left(\frac{6000}{5000} \right)^2 = (1.2)^2 = 1.44$, therefore new SP = 0.5 x 1.44 = 0.72" SP.

4. Calculate new HP: $\left(\frac{6000}{5000} \right)^3 = (1.2)^3 = 1.73$, therefore new HP = 0.5 x 1.73 = 0.86 HP.

New conditions: 6000 CFM (up 20%), 1200 RPM (up 20%), 0.72" SP (up 44%), 0.86 HP (up 73%).

CONVERSION TABLE FOR ENGLISH TO METRIC UNITS

Category	English Unit	Metric Unit	Conversion Factor (†)
Volume Flow	CFM	Cubic Meter Per Hour, M ³ /Hr.	1.6990
	Inches, W.G. (*)	Millimeter of W.G., MM W.G.	25.400

(*) Water Gage. (†) Multiply English unit by this factor to obtain metric unit.

AIR CHANGES RECOMMENDED FOR VARIOUS AREAS

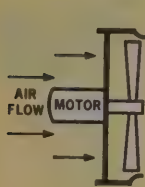
To determine the fan capacity required by using the table below, calculate the total cubic contents of the area to be ventilated in cubic feet and divide by the rate of air change. Result will be cubic feet per minute, corresponding to fan ratings. One or more fans may be used to obtain desired cubic feet per minute.

Minutes Ventilated Area Per Change	Minutes Ventilated Area Per Change	Minutes Ventilated Area Per Change	Minutes Ventilated Area Per Change
Assembly Halls.....3-10	Factories.....4-10	Offices.....5-12	Shops.....5-10
Bakeries.....1-3	Foundries.....2-8	Packing Houses.....3-5	Stores.....5-10
Boiler Rooms.....1-3	Garages.....5-10	Plating Rooms.....1-5	Theatres.....3-8
Cafeterias.....1-5	Kitchens.....1-5	Printing Shops.....5-10	Toilets.....2-5
Churches.....2-4	Laundries.....1-3	Restaurants.....3-10	Transformer Rooms...1-5
Clubs.....5-7	Libraries.....2-4	Rest Rooms.....5-10	Warehouses.....5-10
Dormitories.....5-8	Locker Rooms.....4-15	Sales Rooms.....2-10	
Engine Rooms.....2-5	Mills.....5-8	Schools.....5-10	

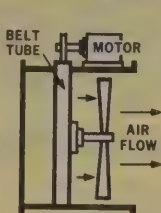
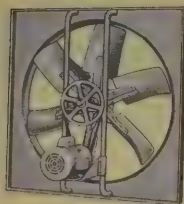
SEE FOLLOWING PAGE

AIR MOVING EQUIPMENT FUNDAMENTALS

PROPELLER FANS and DUCT FANS



PROPELLER FAN (Axial)



DUCT FAN (Tubeaxial)

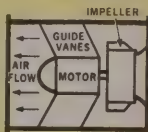
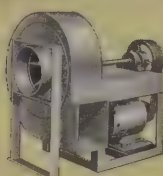
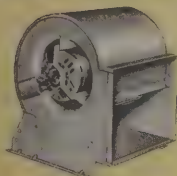


PROPELLER FAN (Axial Fan)—An air moving device in which the air flow is parallel or axial to the shaft on which the propeller is mounted. These fans have good efficiency near free air delivery and are used primarily in low static pressure, high volume applications. As SP is increased, HP increases and CFM decreases. Usually mounted in a venturi, ring, or other housing featuring simple construction and low cost.

DUCT FAN (Tubeaxial)—An air moving device in which the air flow is parallel or axial to the shaft on which the propeller is mounted. The propeller is housed in a cylindrical tube or duct. This design enables duct fans to operate at higher static pressures than propeller fans. Commonly used in spray booth and other ducted exhaust systems. As SP is increased, HP increases and CFM decreases.

CENTRIFUGAL BLOWERS

Centrifugal blowers are air moving devices in which the air flow is perpendicular to the shaft on which the wheel is mounted. The wheel is mounted in a scroll-type housing which is necessary to develop rated pressures. The four classes of centrifugal blowers are determined by wheel blade position with respect to the direction of rotation. As SP is increased, HP and CFM decrease.



FORWARD CURVE

BACKWARD INCLINED

RADIAL

IN-LINE

FORWARD CURVE (FC)—The tips of the blades are inclined in the direction of rotation; the most common type of centrifugal blower. Normally used in residential heating and air conditioning systems and light duty exhaust systems where maximum air delivery and low noise levels are required. Capable of pressures up to approximately $1\frac{1}{2}$ " SP.

BACKWARD INCLINED (BI)—The tips of the blades are inclined away from the direction of rotation. Used in commercial/industrial, heavy duty heating/cooling systems which require heavy duty construction, non-overloading characteristics and stable air delivery. These blowers operate at higher efficiencies than forward curved blowers. Not as quiet as forward curve blowers because they operate at higher speeds. Can be used in systems up to 3" static pressure. Smaller diameter wheels are supplied with flat blades; larger diameter wheels are supplied with air foil blades to improve efficiency.

RADIAL BLADE—Has straight blades which are, to a large extent, self-cleaning, making them suitable for various kinds of material handling and particle-and-grease-laden air. Wheels are of simple construction and have relatively narrow blades. They can withstand the high speeds required to operate at higher static pressures (up to 12") but usually are noisier than FC or BI blowers.

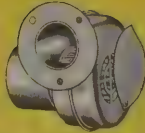
IN-LINE (Tubular Centrifugal Fan)—Air flow is developed as in a centrifugal blower, but after leaving the impeller the air is contained in a tubular housing and, by means of turning vanes, is discharged in an axial direction. Employs single-inlet centrifugal wheels, usually with backward inclined blades. The tubular centrifugal fan has performance characteristics similar to a centrifugal blower and the compact physical configuration of the tubeaxial fan. Can be vertically or horizontally mounted, thus providing a simpler installation by minimizing need for duct turns and transitions.



No. 2C782



No. 1C939
& 4C441



No. 1C180, 2C914
& 4C440



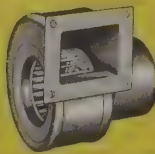
No. 2C781 & 4C443



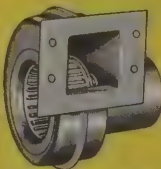
No. 4C267



No. 4C012



No. 4C004, 4C005
& 4C446



No. 2C610, 2C915
& 4C442



No. 4C015

Dayton blowers offer maximum efficiency and quiet air delivery. Widely used in heating, ventilating, exhausting, cooling equipment, etc. Direct drive. Big replacement market. Wide selection of models with automatic-reset thermal protection; adjustable air inlet (Nos. 1C180, 2C914 and 4C440 only); with or without conduit box; outlet flange;

\$8.43

2C782
Lots 12

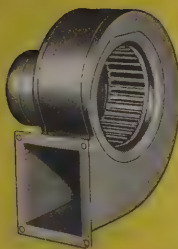
square, rectangular or round outlet; single or twin units; "pancake" design for limited space. Blower housings are steel with baked on gray enamel finish. Trans-flow blower, No. 4C267, is widely used for cooling electronic equipment and in other applications where space is at a premium. Most units operable on 60/50 Hz.

SHADED POLE BLOWER DIMENSIONAL DATA

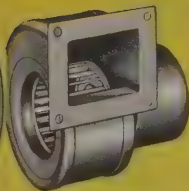
Stock No.	Wheel Dia.	Wheel Width	Motor Mtg.	Cond. Box	Inlet Dia.	Outlet H	Outlet W	Flange H	Flange W	Less Flange H	Less Flange W	Housing Depth	Lead Width	Shpg. Length	Shpg. Wt.
2C782	2"	1"	Rigid	No	1 1/8"	1 1/4"	Dia.	2 1/4"	Dia.	3 1/8"	4 1/8"	3 3/8"	13 1/8"	12"	2
4C012	3	1 1/2	Rigid	No	2 3/8"	1 1/4"	2 1/2	3 1/8"	3 3/8"	4 1/8"	5 1/8"	4 1/8"	2 3/8"	12	3
1C939	3	1 1/2	Rigid	No	2 3/8"	2 3/8"	Dia.	None	5 1/8"	5 1/8"	5 1/8"	6 1/8"	2 1/4"	12	3 1/2
4C441	3	1 1/2	Rigid	No	2 3/8"	2 3/8"	Dia.	None	5 1/8"	5 1/8"	5 1/8"	6 1/8"	2 1/4"	12	3 1/2
1C180	3	1 1/2	Rigid	Yes	2 3/8" (†)	2 3/8"	Dia.	4 1/2"	Dia.	5 1/8"	5 1/8"	6 1/8"	2 1/4"	6	4
4C440	3	1 1/2	Rigid	Yes	2 3/8" (†)	2 3/8"	Dia.	4 1/2"	Dia.	5 1/8"	5 1/8"	6 1/8"	2 1/4"	6	4
2C914	3	1 1/2	Rigid	Yes	2 3/8" (†)	2 3/8"	Dia.	4 1/2"	Dia.	5 1/8"	5 1/8"	6 1/8"	2 1/4"	6	4
4C004	3	1 1/2	Resil	Yes	2 3/8"	2 3/8"	2 1/2	3 3/8"	4	5 1/8"	5 1/2	5 1/2	2 1/4"	6	4
2C781	3 1/16	1 1/8	Resil	No	3 1/8"	2 3/8"	Dia.	4 1/2"	Dia.	5 1/8"	5 1/8"	6 1/8"	2 1/4"	12	4
4C443	3 1/16	1 1/8	Resil	No	3 1/8"	2 3/8"	Dia.	4 1/2"	Dia.	5 1/8"	5 1/8"	6 1/8"	2 1/4"	12	4
4C440	3	1 1/2	Resil	No	4 3/8"	2 1/8"	3 3/8"	None	8 3/8"	8 3/8"	8 3/8"	8 3/8"	3 3/8"	12	5
4C094	5 1/4	2 1/2	Resil	No	4 3/8"	2 1/8"	3 3/8"	None	8 3/8"	8 3/8"	8 3/8"	8 3/8"	3 3/8"	12	5
2C647 (§)	5 1/4	2 1/2	Rigid	No	4 1/2"	3 3/8"	3	3 3/8"	4 5/8"	8	5 1/8"	7 1/8"	3 3/8"	20	4
2C646 (§)	5 1/4	2 1/2	Rigid	No	4 1/2"	3 3/8"	3	3 3/8"	4 5/8"	8	5 1/8"	7 1/8"	3 3/8"	(*)	4
2C610	3 1/16	1 1/8	Resil	Yes	3 3/8"	2 3/8"	2 1/2	4	5 1/8"	7 1/8"	8 3/8"	8 3/8"	2 1/4"	6	6
4C442	3 1/16	1 1/8	Resil	Yes	3 3/8"	2 1/8"	2 1/2	4	5 1/8"	7 1/8"	8 3/8"	8 3/8"	2 1/4"	6	6
2C915	3 1/16	1 1/8	Resil	Yes	3 3/8"	2 1/8"	2 1/2	4	5 1/8"	7 1/8"	8 3/8"	8 3/8"	2 1/4"	6	6
4C005	3 1/16	2 1/2	Resil	Yes	3 3/8"	2 1/8"	2 1/2	3 1/2	4 1/2	5 1/8"	6 1/2	5 1/8"	3 3/8"	6	5
4C446	3 1/16	2 1/2	Resil	Yes	3 3/8"	2 1/8"	2 1/2	3 1/2	4 1/2	5 1/8"	6 1/2	5 1/8"	3 3/8"	6	5
4C015	3	1 1/2	Resil	No	4 3/8"	2 1/8"	2 1/2	3 1/2	4	5 1/8"	8 1/2	5 1/8"	2 1/4"	12	5
1C982	5 1/4	2 1/2	Resil	No	4 3/8"	2 1/8"	3 3/8"	None	8 3/8"	8 3/8"	8 3/8"	8 3/8"	3 3/8"	12	6
2C916	5 1/4	2 1/2	Resil	No	4 3/8"	2 1/8"	3 3/8"	None	8 3/8"	8 3/8"	8 3/8"	8 3/8"	3 3/8"	12	5 1/2
4C013	5 1/4	2 1/2	Resil	Yes	4 1/2"	3 1/4"	4 1/8"	5	5 1/2"	9 1/8"	7 1/8"	8 1/8"	4 1/8"	6	9
4C447	5 1/4	2 1/2	Resil	Yes	4 1/2"	3 1/4"	4 1/8"	5	5 1/2"	9 1/8"	7 1/8"	8 1/8"	4 1/8"	6	9
2C069	5 1/4	2 1/2	Resil	No	4 3/8"	2 1/8"	3 3/8"	4 1/2	4 1/2	8 3/8"	11 1/8"	8 1/8"	3 3/8"	12	10
4C264	5 1/4	6 1/8"	Rigid	No	4 1/2"	3 1/4"	8 1/8"	5	9 1/8"	10	9	8 1/8"	8	12	9
4C448	5 1/4	6 1/8"	Rigid	No	4 1/2"	3 1/4"	8 1/8"	5	9 1/8"	10	9	8 1/8"	8	12	9
4C267 (§)	2 1/2	4 1/2	Rigid	No	—	2 1/8"	4 1/8"	None	3 1/4"	7 1/2	3 3/4	5 1/2	8	2	2
4C006	4 1/4	2	Resil	No	3 1/2"	2 1/2"	2 1/8"	4	4 3/8"	7 3/8"	6 3/8"	7 3/8"	3	12	5

(*) One 8" lead, one 36" lead. (†) Equipped with adjustable air inlet plate. (§) Not UL recognized.

All shaded pole blowers listed in this catalog, except Nos. 2C646, 2C647 and 4C267 are recognized by UL under the Motor Component Recognition Program: for construction, File No. E47479; for thermal protection, File No. E37403; for impedance protection (No. 2C782), File No. E40077.



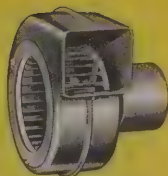
No. 4C006



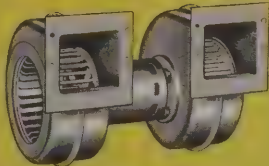
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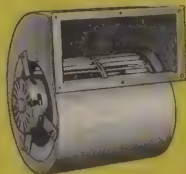
No. 1C982 & 2C916



No. 4C013 & 4C447



No. 2C069



No. 4C264 & 4C448

SHADED POLE BLOWER AIR DELIVERY, ELECTRICAL DATA AND PRICES

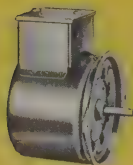
CFM, AT RPM SHOWN, AT 60 Hz (*)														Full Carton			
Free Air	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	Cut-Off SP	Volts	Hz (*)	Therm. Prot.	Free Air			Stock No.	Retail	Each	Unit per Carton	Units per Carton
										RPM	Watts	Amps					
15	13	4	—	—	—	0.22"	115	60/50	(†)	3160	16	0.21	2C782	\$13.62	\$9.08	\$8.43	12
54	48	43	36	25	17	0.67	115	60/50	Auto.	3340	50	0.60	4C012	17.73	11.82	10.97	8
60	57	54	49	39	23	0.60	115	60/50	No	3030	36	0.42	1C939	15.67	10.45	9.70	8
60	57	54	49	39	23	0.60	115	60/50	Auto.	3030	36	0.42	4C441	16.87	11.25	10.44	8
60	57	54	49	39	23	0.60	115	60/50	No	3030	36	0.42	1C180	16.87	11.25	10.44	8
60	57	54	49	39	23	0.60	115	60/50	Auto.	3030	36	0.42	4C440	18.07	12.05	11.19	8
60	57	54	49	39	23	0.60	230	60/50	Auto.	3030	36	0.21	2C914	19.00	12.66	11.76(†)	1
76	70	63	56	45	8	0.55	115	60/50	Auto.	2880	41	0.53	4C004	18.97	12.65	11.74	4
100	98	95	90	85	80	0.80	115	60/50	No	2870	61	0.74	2C781	19.53	13.02	12.09	8
100	98	95	90	85	80	0.80	115	60/50	Auto.	2870	61	0.74	4C443	20.70	13.80	12.81	8
108	94	79	61	25	—	0.42	115	60/50	Auto.	1530	47	0.58	2C067	23.38	15.58	14.47	4
108	94	79	61	25	—	0.42	230	60/50	Auto.	1530	47	0.29	4C094	23.89	15.92	14.79(†)	1
134	126	117	107	96	79	0.59	115	60/50	Auto.	1500	62	0.65	2C647	21.70	14.51	13.47(†)	1
137	125	120	111	102	92	1.15	12VDC	—	No	1480	52	4.30	2C646	20.20	13.51	12.54	4
140	136	131	125	119	110	0.95	115	60/50	No	3020	80	1.02	2C610	19.85	13.23	12.29	4
140	136	131	125	119	110	0.95	115	60/50	Auto.	3020	80	1.02	4C442	21.05	14.03	13.03	4
140	136	131	125	119	110	0.95	230	60/50	Auto.	3020	80	0.51	2C915	21.74	14.49	13.46	4
148	141	135	129	121	114	1.04	115	60/50	No	3160	100	1.37	4C005	19.92	13.28	12.33	4
148	141	135	129	121	114	1.04	115	60/50	Auto.	3160	100	1.37	4C446	21.10	14.06	13.06	4
157	145	134	116	103	72	0.70	115	60/50	Auto.	3180	74	0.98	4C015	27.26	18.17	16.87(†)	1
180	151	141	125	93	16	0.53	115	60/50	Auto.	1460	67	1.00	1C982	23.91	15.94	14.80	4
180	151	141	125	93	16	0.53	230	60/50	Auto.	1460	67	0.50	2C916	24.77	16.51	15.33(†)	1
265	250	232	212	184	135	0.64	115	60/50	No	1610	120	1.86	4C013	26.96	17.97	16.69	4
265	250	232	212	184	135	0.64	115	60/50	Auto.	1610	120	1.86	4C447	28.14	18.75	17.41	4
320	305	284	252	195	50	0.51	115	60/50	Auto.	1320	92	1.27	2C069	35.80	23.86	22.16	4
465	428	396	352	305	227	0.76	115	60/50	No	1530	115	2.90	4C264	33.26	22.17	20.59	4
465	428	396	352	305	227	0.76	115	60/50	Auto.	1530	115	2.90	4C448	34.44	22.95	21.31	4
Free Air 0.05" 0.1" 0.15" 0.2" Cut-Off																	
80	74	69	40	—	0.20"		115	60	Auto.	3090	33	0.50	4C267	21.10	14.06	13.06(†)	1
Free Air 0.5" 0.7" 0.9" 1.0" 1.2" Cut-Off																	
							—0.5" SP—										
							RPM Watts Amps										
(#)	118	107	95	82	42	1.58"	115	60/50	Auto.	2200	126	1.45	4C006	25.21	16.80	15.60	4

(*) Air deliveries approximately 20% less when operated on 50 Hz (not applicable to No. 4C267 which operates on 60 Hz only). (†) Impedance protected. (#) Overloaded—do not operate below 0.5" SP. (‡) Lots 4.

REPLACEMENT MOTORS FOR SHADED POLE BLOWERS

Motors Used on Dayton Shaded Pole Blowers Herein. 60 Hz AC Direct Drive. 15 To 465

Dayton



No. 4K528



No. 5K170



No. 5K173



IC443



No. 4C267

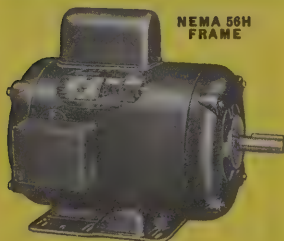
Dayton Blower	HP	Volts 60 Hz	RPM	Shaft Dia.	Stock No.	Each	Shpg. Wt.
1C180	1/125	115	3000	1/8	4K528	\$8.31	2 1/4
1C939	1/125	115	3000	1/8	4K724	7.09	2 1/4
1C982	1/60	115	1500	3/16	5K174†	8.34	3
2C067	1/100	115	1500	3/16	5K175†	8.77	3
2C069	1/40	110	1500	5/16	5K173†	10.28	4
2C610	1/30	115	3000	5/16	4K850	9.31	4
2C846	1/35	12V, DC	2350	1/8	2M177*	7.49	1 3/4
2C647	1/70	115	1500	1/8	3M625*	7.39	2 1/2
2C781	1/45	115	3000	1/8	5K171	7.46	3
2C782	1/250	115	3000	1/8	5K170*	8.93	2
2C841	1/12	115	1500	3/8	3M058	13.95	7
2C906	1/10	115	1500	3/8	3M059	15.22	7 1/2
2C914	1/125	230	3000	1/8	3M070*	11.39	2 1/2
2C915	1/30	230	3000	5/16	3M071†	9.82	3
2C916	1/50	230	1500	5/16	3M072†	9.00	3

Dayton Blower	HP	Volts 60 Hz	RPM	Shaft Dia.	Stock No.	Each	Shpg. Wt.
2C917	1/12	230	1500	3/8	3M074*	\$18.39	7
2C944	1/4	115	1000	1/2	3M393	21.83	11
2C946	1/6	115	1000	1/2	3M074†	18.95	9
2C982	1/12	115	1000	1/2	3M075*	18.47	6
4C004	1/100	115	3000	1/4	3M077*	9.10	2 1/2
4C005	1/25	115	3000	1/4	3M078	10.02	4
4C006	1/40	115	3000	1/4	3M079†	7.57	6 1/2
4C012	1/50	115	3000	1/4	3M081†	5.86	3
4C013	1/20	115	1500	1/2	3M082	10.08	2
4C015	1/40	115	3000	1/4	3M084†	7.00	2 1/4
4C030	1/6	115	1000	1/2	3M601	18.40	8
4C094	1/100	230	1500	3/8	3M139*	9.30	3
4C054	1/5	115	1050	1/2	3M129*	32.42	11

(*) Shipped prepaid from Chicago Service Dept. Order from nearest Grainger address for fastest shipping service.
(†) Not thermally protected.

DAYTON LONG-LIFE CAPACITOR-START MOTORS

Extra-Heavy Construction for Lasting Dependability. 1725 RPM, 115/208-230V, 60 Hz
Cast-Iron End Bells, Double-Sealed Ball Bearings, Double-Dip Varnish on Windings



NEMA 56H
FRAME

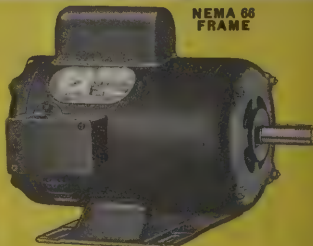
400%
STARTING
TORQUE

1725 RPM

\$63.34

1/2 HP

Dayton



NEMA 66
FRAME

Dayton Long-Life motors are designed to fully satisfy the user who demands the utmost in dependability, durability and ultimate economy. These tough, rugged capacitor-start motors are built for long-life service on air compressors, pumps, blowers, stokers and other power equipment. Heavy-duty, cast-iron endbells for greater rigidity and corrosion resistance. Windings are double-dipped in varnish and baked to resist moisture and abrasives, and assure longer in-

sulation life. 1725 RPM, 115/208-230V, 60 Hz. Large, double-sealed, pre-lubricated ball bearings protect against dirt and moisture. 40°C ambient, 1.25 service factor, Class A insulation (40°C rise), continuous duty. Open, drip-proof construction. Manual reset thermal protection, except No. 6K204. NEMA 56H and 66 frame models with rigid steel base for stable mounting. Rotation easily reversed by electrical reconnection. Black. CSA approved. Dayton brand.

HP	RPM	Volts 60 Hz	Mounting Holes OC	NEMA Frame	Shaft Dia.	Long	Thermal Protection	Full-Load Amps @ 115V	Stock No.	Retail	Each	Shpg. Wt.
1/2	1725	115/208-230	4 7/8 x 3 & 5"	56H	5/8"	1 7/8"	Manual	8.8	6K198	\$96.75	\$63.34	32
3/4	1725	115/208-230	4 7/8 x 3 & 5"	56H	5/8"	1 7/8"	Manual	11.4	6K200	117.00	76.60	34
1	1725	115/208-230	5 7/8 x 5	66	3/4"	2 1/4"	—	15.0	6K204	131.63	86.17	44
	1725	115/208-230	5 7/8 x 5	66	3/4"	2 1/4"	Manual	15.0	6K205	136.50	89.36	44

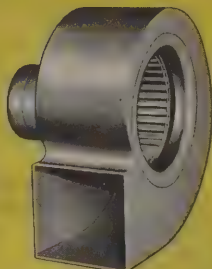
350 to 980 CFM. For Heating, Ventilating, Cooling, Exhausting, Drying



No. 2C841, 2C906,
2C917, 4C444 & 4C445



No. 2C962



No. 2C946 & 4C054

This line of 6 $\frac{1}{16}$ to 8 $\frac{1}{2}$ " wheel shaded pole blowers is widely used in heating, drying, cooling, exhausting and similar applications. Big replacement and new equipment markets. Wheels are direct-driven by dependable Dayton shaded pole motors with automatic-reset thermal protection except Nos. 2C841 & 2C906. Operate with minimum noise level. See table below for complete perform-

\$25.27

2C841
Lots 4

ance and electrical specifications, and dimensional data. Heavy-duty balanced wheels. Motors have all-position mounting sleeve bearings. Blower housings made of heavy-gauge steel, precision formed and finished in baked-on gray enamel. Nos. 2C946, 2C962 and 4C054 can be used with No. 2C335 pre-punched base mounting supports listed below.

SHADED POLE BLOWER AIR DELIVERY, ELECTRICAL DATA AND PRICES

CFM, AT RPM SHOWN, AT 60 Hz (*)																
Free Air	0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	Cut-off SP	Volts	Hz(*)	Therm. Prot.	Free Air			Stock No.	Retail	Each	Lots 4
										RPM	Watts	Amps				
350	340	328	312	296	274	1.00"	115	60/50	No	1585	185	2.90	2C841	\$40.83	\$27.22	\$25.27
350	340	328	312	296	274	1.00	115	60/50	Auto.	1585	185	2.90	4C444	42.63	28.42	26.39
350	340	328	312	296	274	1.00	230	60/50	Auto.	1585	185	1.45	2C917	43.46	28.97	26.90
525	500	475	447	415	387	1.15	115	60	No	1570	225	3.25	2C906	43.99	29.32	27.23
525	500	475	447	415	387	1.15	115	60	Auto.	1570	225	3.25	4C445	45.84	30.55	28.37
490	460	425	390	350	305	0.80	115	60/50	Auto.	1045	215	3.30	2C962	52.74	35.15	32.64
815	767	716	663	604	537	0.91	115	60	Auto.	1030	370	5.60	2C946	61.40	40.92	38.00
980	940	890	843	788	730	1.05	115	60	Auto.	1060	455	6.80	4C054	68.17	45.42	42.17

(*) Air deliveries approximately 20% less when operated on 50 Hz (not applicable to Nos. 2C906, 4C445, 2C946 & 4C054 which operate on 60 Hz only).

SHADED POLE BLOWER DIMENSIONAL DATA

Stock No.	Wheel Diam.	Wheel Width	Motor Mtg.	Cond. Box	Inlet Dia.	Outlet H	W	Flange H	W	Less Flange H	W	Depth	Housing Width	Lead Length	Shpg. Wt.
2C841	6 $\frac{1}{16}$ "	2 $\frac{7}{8}$ "	Rbr	No	5 $\frac{1}{2}$ "	4 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	5 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	7 $\frac{7}{16}$ "	10 $\frac{5}{16}$ "	3 $\frac{3}{8}$ "	12"	11
4C444	6 $\frac{1}{16}$ "	2 $\frac{7}{8}$ "	Rbr	No	5 $\frac{1}{2}$ "	4 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	5 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	7 $\frac{7}{16}$ "	10 $\frac{5}{16}$ "	3 $\frac{3}{8}$ "	12"	11
2C917	6 $\frac{1}{16}$ "	2 $\frac{7}{8}$ "	Rbr	No	5 $\frac{1}{2}$ "	4 $\frac{5}{8}$ "	3 $\frac{3}{8}$ "	5 $\frac{5}{8}$ "	5 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	7 $\frac{7}{16}$ "	10 $\frac{5}{16}$ "	3 $\frac{3}{8}$ "	12"	11
2C906	6 $\frac{1}{16}$ "	4 $\frac{1}{2}$ "	Rbr	No	5 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	5 $\frac{1}{8}$ "	5 $\frac{5}{8}$ "	6 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	9 $\frac{1}{2}$ "	10 $\frac{5}{16}$ "	5 $\frac{1}{4}$ "	12	12
4C445	6 $\frac{1}{16}$ "	4 $\frac{1}{2}$ "	Rbr	No	5 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	5 $\frac{1}{8}$ "	5 $\frac{5}{8}$ "	6 $\frac{1}{8}$ "	11 $\frac{1}{8}$ "	9 $\frac{1}{2}$ "	10 $\frac{5}{16}$ "	5 $\frac{1}{4}$ "	12	12
2C962	8	4 $\frac{1}{8}$ "	Rbr	No	7	5 $\frac{1}{8}$ "	6 $\frac{1}{8}$ "	None	14 $\frac{7}{8}$ "	6 $\frac{1}{2}$ "	13 $\frac{3}{8}$ "	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	12	18
2C946	8	4 $\frac{1}{8}$ "	Rbr	Yes	7	5 $\frac{1}{8}$ "	6 $\frac{1}{8}$ "	None	14 $\frac{7}{8}$ "	11	13 $\frac{3}{8}$ "	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	6	20
4C054	8 $\frac{1}{2}$	5	Rbr	Yes	7	5 $\frac{1}{8}$ "	7 $\frac{3}{8}$ "	None	14 $\frac{7}{8}$ "	12 $\frac{3}{4}$ "	13 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	7 $\frac{3}{8}$ "	6	23

FOR MORE DETAILS ON DAYTON SHADED POLE BLOWERS REQUEST BULLETIN 705

MOUNTING SUPPORTS FOR ABOVE BLOWERS



\$2.14
Per Pair

Pre-punched to facilitate base mounting No. 2C962, 2C946 and 4C054 shaded pole blowers for bottom, upward or overshot discharges. 12 $\frac{3}{4}$ " long. Gray finish. Shpg. wt. 1 $\frac{1}{4}$ lbs.

No. 2C335. Blower Mounting Support. Retail \$3.56. Per Pair.....**\$2.14**

3/4-WIDTH UNIVERSAL-MOUNT BLOWERS

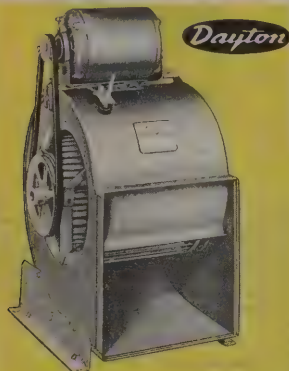
9½ to 18½" Dia. Wheels. Double-Inlet. Belt Drive. Pre-Punched Mount

Three-quarter width blowers provide the most flexible and economical blower units for heating, ventilating, cooling systems and other similar air moving applications. Ideal for installation where cabinet space is limited. For standard Heating or Ventilating systems use blowers listed at free air to ¾" static pressure. For heating and air conditioning systems and air moving applications where higher static pressures are present, use blowers listed from ½" to ¾"

\$27.01

No. 2C971
Less Motor
and Drive

static pressure. 9½ to 18½" double-inlet, three-quarter width wheels. Heavy gauge, rigid steel die-stamped housing. Preslok wheels assure positive locking action. Ground and burnished shaft. Sealed sleeve bearings. Very quiet. 40°C rise, continuous-duty, resilient-mounted, automatic-reset thermally protected, Dayton blower motor and appropriate drives for bottom horizontal discharge packed separately when ordered. A longer or shorter belt may be required for other discharges. See discharge illustrations below. Request Bulletin 701.



Wheel Dia.	W	BLOWER DIMENSIONS						Less Motor & Drive		
		Shaft Dia.	Outlet H	W	Overall H	W	D	Stock No.	Each	Shpg. Wt.
9½	7½	¾	10½	9½	17	13	15	2C971	\$27.01	17
10½	8	¾	11½	10½	19	14	17	2C973	28.76	23
12½	9½	1	13½	12½	22	18	19	2C975	42.18	34
15	11½	1	15½	14½	26	19	23	2C977	62.03	55
18½	13½	1	18½	17½	31	24	27	2C979	124.44	90



BOTTOM
HORIZONTAL



UP
BLAST



TOP
HORIZONTAL



DOWN
BLAST

4 STANDARD DISCHARGES SERVED WITH UNI-MOUNT

Mounting supports and blower sides are pre-punched in proper areas for quick assembly for above discharges. Motor mount and hardware included.

PERFORMANCE for HEATING OR VENTILATING SYSTEMS

CFM AIR DELIVERY AT RPM SHOWN						BLOWER WITH 1725 RPM MOTOR & DRIVE					
Wheel Dia.	Free Air	1/8" SP	1/4" SP	3/8" SP	Blower RPM	Motor Data			With Automatic Thermal Protection		Shpg. Wt.
						HP	Volts 60 Hz	Type	Stock No.	Each	
9½	1420	1290	1080	—	690	1/4	115	Split	7C654	\$59.61	38
10½	1680	1430	1070	—	560	1/4	115	Split	7C656	58.60	44
	1930	1730	1430	800	625	1/3	115	Split	7C658	63.73	47
12½	2430	2160	1780	—	465	1/3	115	Split	7C660	76.70	58
	2840	2680	2420	2020	555	1/2	115	Split	7C662	90.03	59
15	3500	3100	2600	—	403	1/2	115	Split	7C664	108.97	80
	4100	3850	3450	2950	458	3/4	115/230	Cap.	7C666	132.98	84
18½	5000	4500	3800	3500	350	3/4	115/230	Cap.	7C668	198.71	119
	5600	5200	4550	3500	408	1	115/230	Cap.	7C669	206.03	124

PERFORMANCE for HEATING AND AIR CONDITIONING SYSTEMS

CFM AIR DELIVERY AT RPM SHOWN						BLOWER WITH 1725 RPM MOTOR & DRIVE					
Wheel Dia.	Free Air	1/2" SP	5/8" SP	3/4" SP	Blower RPM	Motor Data			With Automatic Thermal Protection		Shpg. Wt.
						HP	Volts 60 Hz	Type	Stock No.	Each	
9½	*	1340	1000	—	917	1/3	115	Split	7C063	\$65.78	41
	*	1640	1460	1150	990	1/2	115	Split	7C064	78.57	42
10½	*	1940	1550	—	837	1/2	115	Split	7C065	79.83	48
	*	2320	2080	1660	917	3/4	115/230	Cap.	7C066	102.75	52
12½	*	2860	2530	1800	692	3/4	115/230	Cap.	7C067	122.09	63
	*	3240	2920	2500	734	1	115/230	Cap.	7C068	126.61	68
	*	3240	2920	2500	734	1	230/460	3-Ph.	7C053‡	111.33	68
15	*	4140	3660	2700	550	1	115/230	Cap.	7C069	146.85	89
	*	4140	3660	2700	550	1	230/460	3-Ph.	7C055‡	131.57	89

(*) These blowers should not be installed in a system having below ½" static pressure; see table above for air delivery between free air and ¾" SP. (‡) 230/460V, 60 Hz, 40°C, 3-phase motors—NOT thermally protected.

FULL-WIDTH UNIVERSAL-MOUNT BLOWERS

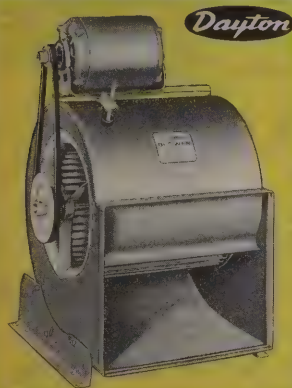
7½ to 18½" Dia. Wheels. Double-Inlet. Belt Drive. Pre-punched Mount

Full-Width, Uni-Mount blowers meet 80 to 90% of normal blower applications for residential heating and heating and cooling systems. Also, widely used for commercial heating, ventilating, cooling and similar air-moving systems. For standard Heating or Ventilating systems use blowers listed at free air to ¾" static pressure. For systems and air moving applications where higher static pressures are present, use blowers listed from ½" to ¾" static pressure. 7½ to 18½", double-

\$25.42

No. 2C970
Less Motor
and Drive

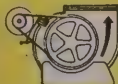
inlet, full width wheels. Heavy gauge, rigid steel die-stamped housing. "Preslok" wheels assure positive locking action. Ground and burnished shaft. Sealed sleeve bearings. Extremely quiet running. Motor mount and hardware included. 40°C rise, continuous-duty, resilient-mounted, automatic-reset thermally protected, Dayton blower motor and appropriate drives for bottom horizontal discharge packed separately when blower is ordered complete. A longer or shorter belt may be required if used in other discharges, Request Bulletin 701.



BLOWER DIMENSIONS				Less Motor & Drive		Shpg. Wt.
Wheel Dia.	W	Shaft Dia.	Outlet H W	Overall H W D	Stock No.	
7½	7	¾	7½ 9½	14 14	2C970	\$25.42
9½	9½	¾	10½ 11½	17 15	2C972	28.54
10½	10½	¾	11½ 13½	19 17	2C974	30.97
12½	12½	1	13½ 15½	22 20	2C976	43.84
15	15	1	15½ 18½	26 23	2C978	66.45
18½	18	1	18½ 21½	31 29	2C980	128.80



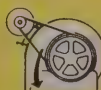
BOTTOM HORIZONTAL



UP BLAST



TOP HORIZONTAL



DOWN BLAST

4 STANDARD DISCHARGES SERVED WITH UNI-MOUNT

Mounting supports and blower sides pre-punched in proper areas for quick assembly (except No. 2C970 has mounting supports fixed for bottom horizontal discharge).

PERFORMANCE for HEATING OR VENTILATING SYSTEMS

CFM AIR DELIVERY AT RPM SHOWN					BLOWER WITH 1725 RPM MOTOR & DRIVE				
Wheel Dia.	Free Air	1/8" SP	1/4" SP	3/8" SP	Blower RPM	Motor Data		With Automatic Thermal Protection	
						HP	Volts 60 Hz	Stock No.	Shpg. Wt.
7½	1075	940	765	570	1030	1/4	115	7C672	35
9½	1580	1350	1000	—	625	1/4	115	7C655	42
10½	1750	1400	—	—	492	1/4	115	7C657	46
	2060	1790	1420	—	560	1/3	115	7C659	49
12½	2680	2280	1700	—	425	1/3	115	7C661	64
	3140	2820	2420	1800	500	1/2	115	7C663	65
15	3950	3450	2800	—	405	1/2	115	7C665	91
	4550	4150	3600	2850	458	3/4	115/230	7C667	95
18½	6300	5700	4500	—	350	1	115/230	7C670	149
	6300	5700	4500	—	350	1	230/460	7C604†	149

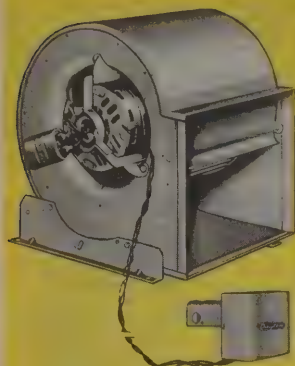
PERFORMANCE for HEATING AND AIR CONDITIONING SYSTEMS

CFM AIR DELIVERY AT RPM SHOWN					BLOWER WITH 1725 RPM MOTOR & DRIVE				
Wheel Dia.	Free Air	1/2" SP	5/8" SP	3/4" SP	Blower RPM	Motor Data		With Automatic Thermal Protection	
						HP	Volts 60 Hz	Stock No.	Shpg. Wt.
7½	*	780	450	—	1190	1/2	115	7C070	39
9½	*	1840	1580	1000	959	1/2	115	7C071	46
10½	*	2080	1660	—	837	1/2	115	7C072	50
	*	2500	2200	1800	910	3/4	115/230	7C073	54
12½	*	3100	2680	—	692	3/4	115/230	7C074	69
	*	3600	3280	2840	750	1	115/230	7C075	74
	*	3600	3280	2840	750	1	230/460	7C062†	74

(* These blowers should not be installed in a system having below ½" static pressure; see table above for air delivery between free air and ¾" SP. (†) 230/460V, 60 Hz, 40°C, 3-phase motors—NOT thermally protected.

10⁵/₈" VARIABLE-SPEED DIRECT-DRIVE BLOWER

Automatically Adjusts CFM for Heating. Solid State Control. Finest Furnace Blower Available



Dayton

\$112.61

Latest innovation in furnace blower design for heating and air conditioning. Interchangeable with most direct-drive blowers. Incorporates 1/2 HP, variable-speed, 400 to 1075 RPM, 115V, 60 Hz, permanent split capacitor motor and solid state controller with thermistor temperature sensing element. Blower speed gradually increases to proper RPM as bonnet temperature rises during heating cycle. Speed then gradually decreases to preset low RPM when burner shuts off. During air conditioning cycle, blower adjusts to maximum RPM when compressor is running, and decreases to preset low when compressor shuts off. Blower provides continuous air movement at low speed when heat and air conditioning are off. Sensing element easily installed in furnace. 8-ft. connecting cable provided. Can be mounted in any of four discharge positions illustrated. Heavy-gauge steel, gray enamel finish. Neoprene motor mounting rings. Automatic reset thermal protected motor. Mounting supports (not supplied) listed below. Shpg. wt. 38 lbs.



BOTTOM HORIZONTAL



UP BLAST



TOP HORIZONTAL



DOWN BLAST

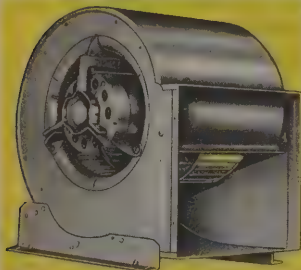
CFM AIR DELIVERY AT 1075 RPM							BLOWER DIMENSIONS				Stock		
Free Air	0.7" SP	0.8" SP	0.9" SP	1.0" SP	1.1" SP	1.2" SP	Wheel Dia.	Outlet W	Overall W	Overall D	No.	Retail	Each
(*) 1770	1740	1700	1610	1530	1400		10 ⁵ / ₈ "	8"	11 ¹ / ₂ "	10 ¹ / ₂ "	17 ³ / ₄ "	12 ¹ / ₂ "	16 ³ / ₄ "

4C351 \$185.25 \$112.61

(*) Motor Overload will result if blower is operated at static pressure below performance shown.

9" WHEEL, SINGLE-SPEED, DIRECT-DRIVE BLOWERS

For Heating and Ventilating. Overload Protected Motor



Dayton

\$49.45

No. 4C030

Package blower units for easy installation on heating, ventilating and air conditioning jobs. Full and 3/4 width, double-inlet blower wheels directly connected to 1000 RPM, 115V, 60 Hz, shaded pole motor with automatic reset thermal protection. Neoprene motor mounting rings. Can be mounted in any of the four discharge positions shown below, provided oilers are rotated for proper position. Mounting supports not supplied, see listing below. Heavy gauge steel construction, housing has gray enamel finish. Use control listed below to vary speed and control air delivery on No. 4C030. Request Bulletin 701.



BOTTOM HORIZONTAL



UP BLAST



TOP HORIZONTAL



DOWN BLAST

Interchanges in the field with most direct-drive blowers

CFM AIR DELIVERY AT 1000 RPM						Motor HP	BLOWER DIMENSIONS				BLOWER WITH 115V MOTOR			
Free Air	0.3" SP	0.4" SP	0.5" SP	0.6" SP	0.7" SP		Wheel Dia.	Outlet W	Overall W	Overall D	Stock No.	Retail	Each	Shpg. Wt.
(*) 865	825	760	660	520		1/6	9 ¹ / ₁₆ "	6 ³ / ₄ "	7 ⁷ / ₈ "	9 ¹ / ₁₆ "	13	11	13	4C030 \$81.35 \$49.45 20
(*) 1460	1430	1385	1320	1220		1/4	9 ¹ / ₂ "	9 ¹ / ₂ "	10 ¹ / ₄ "	11 ¹ / ₄ "	16	14	15	2C944 87.20 53.02 29

(*) Motor Overload will result if blower is operated at static pressures below performance shown.

No. 2C645. 5-SPEED CONTROL—choke-coil tapped reactor—type for No. 4C030 blower and similarly rated direct-drive, shaded pole and permanent split capacitor motors. 6 amp. 115V. Shpg. wt. 1³/₄ lbs. Retail \$15.54. Each **\$9.31**

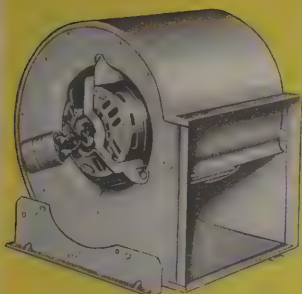
PUNCHED MOUNTING SUPPORTS FOR ABOVE BLOWERS



For Blower No.	Position	Stock No.	Retail	Per Pair	Shpg. Wt.
4C030	Bottom & Up	4C044	\$4.64	\$2.78	1
2C944	Any	2C335	3.56	2.14	1 ¹ / ₄
4C351	Any	4C125	4.00	2.41	1 ¹ / ₄

4-SPEED, 9½, 10⅝, & 12⅝" DIRECT-DRIVE BLOWERS

For Heating and Air Conditioning and Ventilating Systems



Interchanges in the field with most direct-drive blowers

Dayton

\$68.66

No. 4C058

Dayton Direct-Drive Blowers with 4-speed, permanent-split capacitor motor. Widely used for new and replacement installations in heating and air conditioning systems. Can be mounted in any of the four discharge positions shown below provided ollers are rotated for proper position. Heavy gauge steel construction, gray enamel finish. Neoprene motor mounting rings. 36" long, 90°C. neoprene leads provide adequate length for electrical connection to switch (see Index under Switches, Rotary, No. 4X739, not included) for No. 4C058 blower only. Simplifies seasonal changeover. Motor has automatic reset thermal protection, 1100 RPM in Hi, 6-pole, 4-speed tap winding. Mounting supports (not supplied) listed below. Shpg. wts. 29, 33, 41 and 46 lbs. respectively. Request Bulletin 701.



BOTTOM
HORIZONTAL



UP
BLAST



TOP
HORIZONTAL



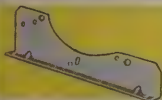
DOWN
BLAST

DIRECT-DRIVE BLOWER PERFORMANCE, DIMENSIONS & PRICES

Wheel Dia. W	CFM AIR DELIVERY AT SPEED SHOWN(*)						Motor Speed (‡)	DIMENSIONS					WITH 1/3 HP, 115V, 60 Hz MOTOR		
	0.4" SP	0.5" SP	0.6" SP	0.7" SP	0.8" SP	0.9" SP		Outlet H	W	Overall H	W	D	Stock No.	Retail	Each
9½" 9½"	1780	1715	1635	1530	1390	1190	1	10¼"	11¼"	16"	14"	15"	4C058	\$112.95	\$68.66
	*	1550	1480	1390	1270	1050	2								
	*	*	1340	1275	1170	900	3								
	*	*	1230	1175	1080	—	4								
Wheel Dia. W	CFM AIR DELIVERY AT SPEED SHOWN(*)						Motor Speed (‡)	DIMENSIONS					WITH 1/2 HP, 115V, 60 Hz MOTOR		
	0.9" SP	1.0" SP	1.1" SP	1.2" SP	1.25" SP	1.3" SP		Outlet H	W	Overall H	W	D	Stock No.	Retail	Each
10⅝" 8"	1800	1750	1680	1580	1500	1370	1	11⅝"	10⅝"	17⅝"	12⅝"	16⅝"	4C117	\$124.70	\$75.81
	*	1260	1220	1150	1080	—	2								
	*	1140	1080	970	—	—	3								
	*	1000	980	850	—	—	4								
Wheel Dia. W	CFM AIR DELIVERY AT SPEED SHOWN(*)						Motor Speed (‡)	DIMENSIONS					WITH 3/4 HP, 115V, 60 Hz MOTOR		
	0.7" SP	0.8" SP	0.9" SP	1.0" SP	1.1" SP	1.2" SP		Outlet H	W	Overall H	W	D	Stock No.	Retail	Each
10⅝" 10⅝"	*	2550	2460	2340	2150	1860	1	11⅝"	13⅝"	17⅝"	15⅝"	16⅝"	4C352	\$146.00	\$88.74
	2180	2160	2100	2000	1870	1620	2								
	1920	1900	1880	1800	1700	1480	3								
	1670	1660	1640	1580	1440	780	4								
Wheel Dia. W	CFM AIR DELIVERY AT SPEED SHOWN(*)						Motor Speed (‡)	DIMENSIONS					WITH 3/4 HP, 230V, 60 Hz MOTOR		
	1.2" SP	1.3" SP	1.4" SP	1.5" SP	1.6" SP	1.7" SP		Outlet H	W	Overall H	W	D	Stock No.	Retail	Each
12⅝" 9½"	2240	2230	2200	2160	2100	1950	1	13⅝"	12¼"	20⅝"	14¼"	19⅝"	4C252	\$167.00	\$101.50
	2020	2010	1990	1950	1920	1700	2								
	1910	1900	1870	1820	1720	—	3								
	*	1760	1700	1620	1450	—	4								

* MOTOR OVERLOAD will result if blower is operated at static pressures below performance shown.

‡ Motor speed key—1, Hi; 2, Medium-High; 3, Medium-Low; 4 Lo.



PUNCHED MOUNTING SUPPORTS FOR ABOVE BLOWERS

For Blower No.	Position	Stock No.	Retail	Per Pair	Shpg. Wt.
4C058	Any	2C335	\$3.56	\$2.14	1½
4C117 & 4C352	Any	4C125	4.00	2.41	1½
4C252	Any	4C253	4.19	2.51	2½

Replacement Motors Available for Above Blowers, See Index Under Motors, Blower

SEE WARRANTY INFORMATION ON PAGE 684

SINGLE-INLET, BELT-DRIVE DUCT BLOWERS

9", 10½" & 12½" Sizes. Single-Width. Adjustable Discharge

Dayton

\$67.58

No. 2C887

Your best buy in single-inlet blowers with inlet unobstructed, for general duct ventilation, exhausting, air conditioning, processing and industrial use. Comes with bottom horizontal discharge which can be altered on the job to any required discharge position by drilling new holes and rotating blower housing on base and bolting in position. Adjustable top motor mount quickly changed from top to rear mounting. Rugged construction of heavy gauge steel throughout. Very quiet. High volume at low velocity. Over-sized ball bearings. Air deliveries are based on standard test codes of AMCA. Gray finish. 40°C rise, continuous-duty Dayton resilient-mounted, automatic-reset thermally protected, blower motor and drive packed separately when blower is ordered complete. Request Bulletin 706.



BLOWER DIMENSIONS

Stock No.	Wheel Dia. W	Shaft Dia.	Inlet Dia.	Outlet H	W	H	Overall		Shpg. Less Motor	Wt. With Motor
							W	D		
2C887	9 x 4½	¾	9	10¾	6½	17	11	15	24	40
2C888	10½ x 5½	¾	10	11¾	8	19	12	18	32	52
2C800	12½ x 6½	¾	13¼	13¼	9½	27	15	22	60	80

CFM AIR DELIVERY AT RPM SHOWN(†)

1/8" SP	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP
1100	1000	890	800	475	—
1690	1600	1480	1370	1140	—
(#)	(#)	(#)	2100	1980	1460

BLOWER LESS MOTOR & DRIVE

Stock No.	Each
2C887	\$67.58
2C888	75.00
2C800	118.75

BLOWER WITH 1725 RPM MOTOR & DRIVE

Motor Data			With Automatic Thermal Protection	
HP	Volts 60 Hz	Type	Stock No.	Each
1/4	115	Split	7C651	\$97.26
1/2	115	Split	7C652	120.92
1/2	115	Split	7C653	169.36

(†) Overloaded below ½" SP.

(#) Overload—Not recommended for operation at this SP with specified HP.

HIGH VOLUME AND PRESSURE BLOWERS

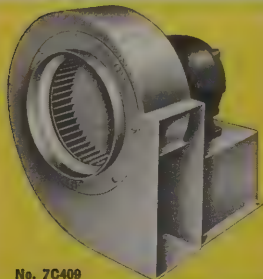
9 & 10½" Multi-Vane, High-Pressure Wheels

Dayton

\$53.91

No. 4C118

Direct-drive blower provides a high volume of air at medium to high pressures by combining the characteristics of the high-volume and high-pressure type blowers. Particularly suited for carbon monoxide systems, electronic cooling and industrial systems. Housing made of 16 ga. steel with welded, air-tight joints. Housing may be turned to any one of eight different discharge directions. Heavy steel wheel, ⅞" bore. Ideal for high pressure work where higher noise levels are not objectionable. Air deliveries are based on standard test codes of AMCA. Gray finish. Motors packed separately when blowers are ordered complete. For appropriate integral HP motor control, see Index under Controls. Request Bulletin 706.



No. 7C409

CAUTION: Must not be used where static pressure is less than shown in table below. Severe motor overload will result. Motor overload protection is highly recommended.

BLOWER DIMENSIONS

Stock No.	Wheel Dia.	W	Bore	Inlet	Outlet H	W	H	Overall		Shpg. Less Motor	Wt. With Motor
								W	D		
4C118	9	4½	⅞	9	10¾	6½	18	16	15	24	84
4C119	10½	4	⅞	10	11¾	5½	21	16	17	33	103

CFM AIR DELIVERY AT 1725 RPM

1½" SP	1¾" SP	2" SP	2¼" SP	2½" SP	2¾" SP
1390	1250	1050	—	—	—
1848	1735	1610	1457	1288	1047

BLOWER LESS MOTOR

Stock No.	Each
4C118	\$53.91
4C119	62.27

BLOWER COMPLETE WITH 1725 RPM MOTOR

With Capacitor Start 115/230V Ball Bearing Motor(*)			With 3 phase 230/460V Ball Bearing Motor(*)	
HP	Stock No.	Each	Stock No.	Each
1	7C408	\$128.92	7C567	\$114.56
1½	7C409	156.72	7C568	129.41

(*) All motors are 1725 RPM, 60 Hz, rigid mounted.

COME IN AND SEE GRAINGER'S IN ACTION
LARGE STOCKS AND SHIPPING FACILITIES
KNOW THE GRAINGER PEOPLE WHO SERVE YOU



HIGH-VOLUME, DIRECT-DRIVE BLOWERS

6, 7½, 9 & 10½" Dia. Wheels. Available with Proper Dayton Motor

Direct-drive, single-inlet, high-volume blowers used extensively for general ventilation when duct systems are required, such as exhausting foul air, blowing cool air, forcing air through

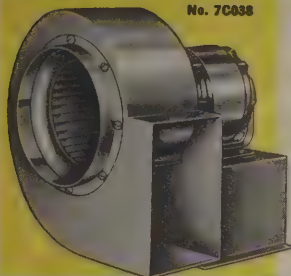
washers and on blasters, forced air furnaces, dryers, and gas ovens. Efficient performance. Sturdy welded steel construction, dynamically balanced wheels. May be assembled to discharge at any one of 8 equally spaced positions. Air deliveries are based on standard/test codes of AMCA. Gray finish. Dayton motors packed separately when blowers are ordered complete. Request Bulletin 706.

No. 7C038

Dayton

\$32.73

No. 1C791



BLOWER DIMENSIONS

Stock No.	—Wheel—			Inlet	Outlet		Overall			Shpg. Wt.	
	Dia.	W.	Bore		H	W	H	W	D	Less Mtr.	With Mtr.
1C791	6	x 3	½	6	7½	4½	15	14	11	13	29
1C792	7½	x 3½	½	8	8½	5½	16	15	14	17	33
2C889	9	x 4½	¾	9	10½	6½	18	16	15	23	41
2C938	9	x 4½	¾	9	10½	6½	18	16	15	25	50
2C890	10½	x 5½	¾	10	11½	8	21	19	18	34	61
2C939	10½	x 5½	¾	10	11½	8	21	19	18	36	71

CFM Air Delivery at RPM Shown

Free Air	1/8" SP	1/4" SP	1/2" SP	3/4" SP	1½" SP
595	560	515	420	300	—
985	920	870	765	655	360
1005	968	930	850	773	480
1180	1160	1125	1035	855	—
1510	1450	1400	1290	1200	1000
1510	1450	1400	1290	1200	1000
2060	1970	1870	1710	1500	1020
2060	1970	1870	1710	1500	1020

BLOWER Less Motor

Stock No.	Each
1C791	\$32.73
1C792	41.41
2C889	50.55
2C938(*)	54.14
2C890	57.89
2C939	57.89
2C938(*)	61.64
2C939(*)	61.64

BLOWER COMPLETE WITH PROPER MOTOR

HP	RPM	Volts 60 Hz	Type	Mtr. Mtg.	Brgs.	Stock No.	Each
1/4	1725	115	Split	Rbr.	Slv.	7C037	\$58.66
1/3	1725	115	Split	Rbr.	Slv.	7C038	71.51
1/3	1725	115	Split	Rbr.	Slv.	7C039	80.65
1/3	1140	115/230	Cap.	Rig.	Slv.	7C647	119.89
3/4	1725	115/230	Cap.	Rbr.	Slv.	7C453	108.82
3/4	1725	230/460	3-Ph.	Rbr.	Ball	7C454	115.30
3/4	1140	115/230	Cap.	Rig.	Ball	7C648	172.76
3/4	1140	220/440	3-Ph.	Rig.	Ball	7C649	133.87

(*) Blowers No. 2C938 and 2C939 supplied with No. 1X494, rubber motor mount for extra quiet operation.

RADIAL BLADE 7¾ to 13½" WHEEL BLOWERS

Self-Cleaning Aluminum
Paddle-Type Wheels

Dayton

\$59.69

No. 2C862

Widely used in exhaust systems where air contains dirt, lint, grease and other foreign material—because wheel is self-cleaning type. Also recommended for conveying stringy or straw-like material. Wheels are cast aluminum, dynamically balanced and are self-cleaning to eliminate unbalance or reduced air flow. Air deliveries are based on standard test codes of AMCA. Standard units are built for CW rotation and bottom horizontal discharge. Housing and base made of 16 ga. steel with continuous arc-welded joints. Housing and wheel can be changed at time of installation to any rotation or any one of eight discharge directions. Gray finish. Motors packed separately when blowers are ordered complete. Request Bulletin 708.

BLOWER DIMENSIONS

Stock No.	—Wheel—			Inlet Dia.	Outlet		Overall			Shpg. Wt.	
	Dia.	W	Bore		H	W	H	W	D	Less Mtr.	With Mtr.
2C862	7½	x 4	½	8	8½	5½	15	15	14	16	32
2C863	9	x 4½	¾	9	10½	6½	16	16	16	22	38
2C864	11	x 5½	¾	10	11½	8	19	18	17	32	52
4C217	12½	x 7½	¾	13½	13½	9½	27	22	22	68	121
4C121	13½	x 8½	¾	14½	14½	10½	28	23	23	78	131

CFM Air Delivery at 1725 RPM

Free Air	1/4" SP	1/2" SP	3/4" SP	1" SP	1½" SP	2" SP
550	470	365	150	—	—	—
880	765	635	480	200	—	—
1430	1335	1225	1100	945	430	—
1430	1335	1225	1100	945	430	—
2375	2220	2060	1890	1700	1185	350
2375	2220	2060	1890	1700	1185	350
3000	2840	2660	2480	2280	1820	1020

BLOWER Less Motor

Stock No.	Each
2C862	\$59.69
2C863	64.53
2C864	78.20
2C864	78.20
4C217	126.88
4C217	126.88
4C121	166.48

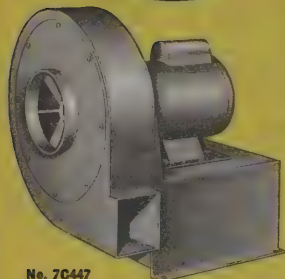
BLOWER COMPLETE with 1725 RPM MOTOR

HP	60 Hz Volts	Type	Brge.	Stock No.	Each
1/4	115	Split	Slv.	7C552	\$83.21
1/4	115	Split	Slv.	7C553	88.05
1/2	115	Split	Slv.	7C554	110.89
1/2	230/460	3-Ph.	Ball	7C720	129.59
1	115/230	Cap.	Slv.	7C555	194.02
1	230/460	3-Ph.	Ball	7C556	185.68
2	230/460	3-Ph.	Ball	7C639	240.10

HIGH-PRESSURE, DIRECT-DRIVE BLOWERS

7¼ to 13½" Dia. Self-Cleaning, Radial Blade Wheels

Dayton



No. 7C447

\$53.28

No. 2C940

For small "dust" exhaust systems and for supplying high pressure air for conveying, cooling, etc. Used where dust collection bags are necessary. Sturdy, welded, 16 ga. steel housings. Balanced, self-cleaning, paddle-type, cast aluminum wheels. Clockwise rotation, bottom horizontal discharge, may be changed to seven other discharge positions. Air deliveries are based on standard test codes of AMCA. Gray finish. Motor packed separately when blowers are ordered complete. Request Bulletin 708.

DIRECT-DRIVE BLOWER DIMENSIONS

Stock No.	Dia.	Wheel W	Bore	Inlet	Outlet H	W	H	Overall W	D	Mtr. Frame	Shpg. Wt.
2C940	7¼	2	1½	4	3	3	14	16	12	48	14
2C820	9	2½	1½	5	3½	3½	16	21	14	48	18
4C108	10½	2½	1½	6	4	3½	18	21	16	56	25
4C329	12½	2½	1½	7	5	4	19	21	18	145T	37
2C739	12½	2½	1½	7	5	4	19	21	18	184	37
4C330	13½	4½	1½	8	7½	5½	23	23	22	182T	64
2C652	13½	4½	1½	8	7½	5½	23	23	22	213	64

CFM AT SP SHOWN, 3450 RPM (†)

1"	2"	3"	4"	5"	6"
291	231	156	—	—	—
530	475	415	335	160	—
810	748	682	610	510	370
810	748	682	610	510	370
1200	1137	1069	1011	937	865
1200	1137	1069	1011	937	865
2137	2029	1927	1818	1711	1616
2137	2029	1927	1818	1711	1616

BLOWER LESS MOTOR

Stock No.	Each
2C940	\$53.28
2C820	57.42
4C108	68.59
4C108	68.59
4C329	98.13
2C739	98.13
4C330	137.97
2C652	137.97

BLOWER COMPLETE WITH 3450 RPM MOTOR (*)

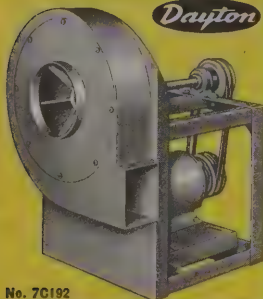
HP	Volts	Type	Stock No.	Each
1/3	115	Split	7C650	\$77.36
1/3	115	Split	7C504	81.50
1	115/230	Cap.	7C447	122.76
1	(§)	3-Ph.	7C741	122.76
2	230/460	3-Ph.	7C561	198.93
2	(§)	3-Ph.	7C459	224.13
5	230/460	3-Ph.	7C562	275.31
5	(§)	3-Ph.	7C410	318.15

(*) All motors are rigid mounted, 60 Hz. 1/3 HP has sleeve bearing, all others have ball bearings. (†) Motor overload will result if blower is operated at static pressures below performance shown. (§) 208-220/440V, 60 Hz.

HIGH-PRESSURE, BELT-DRIVE BLOWERS

10½, 12½ & 13½" Dia. Self-Cleaning, Radial Blade Wheels

Dayton



No. 7C192

\$138.59

No. 4C129

Provides maximum performance and efficiency in exhaust systems that have between 5 and 10" static pressure. Air deliveries based on standard test codes of AMCA. Dynamically balanced, self-cleaning, heavy-duty cast aluminum wheels designed for efficient operation. Rugged, 16 ga. arc-welded housing, self-aligning ball bearing pillow blocks. Clockwise rotation; can be changed to counterclockwise. Bottom horizontal discharge; can be changed to seven other discharge positions. Motor and variable-pitch drive packed separately when blowers are ordered complete. Request Bulletin 708.

BELT-DRIVEN BLOWERS LESS MOTOR & DRIVE

Wheel Dia.	W.	Bore	Inlet	Outlet H	W	H	Overall W	D	Stock No.	Each	Shpg. Wt.
10½	2½	1	6	4	3½	21	20	16	4C129	\$138.59	35
12½	2½	1	7	5	4	25	24	18	4C130	171.33	59
13½	4½	1	8	7½	5½	26	25	23	4C131	186.95	74

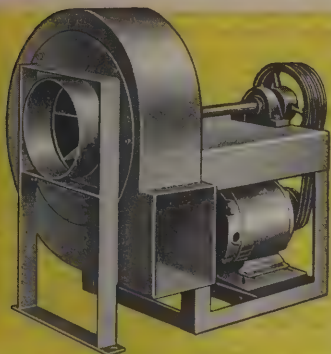
BLOWERS WITH 3400 RPM MOTOR & DRIVE—AIR DELIVERY AT RPM SHOWN

Wheel Dia.	CFM (†) 5" SP	RPM	HP	Stock No.	Each	CFM (†) 7½" SP	RPM	HP	Stock No.	Each	CFM (†) 10" SP	RPM	HP	Stock No.	Each
10½"	390	3250	1/2	7C182	\$177.62	400	3750	3/4	7C184	\$184.59	395	4250	1	7C186	\$198.40
	505	3500	3/4	7C183	184.59	480	4000	1	7C185	199.40	560	4625	1½	7C187*	249.90
12½	575	2810	1	7C188	252.18	585	3250	1½	7C190*	284.80	610	3680	2	7C192*	302.60
	740	3065	1½	7C189*	284.80	750	3500	2	7C191*	299.92	850	3950	3	7C193*	315.20
13½	840	2500	1	7C194	267.74	860	2920	1½	7C197*	300.42	900	3340	2	7C202*	315.54
	1100	2670	1½	7C195*	299.25	1075	3080	2	7C198*	315.54	1120	3500	3	7C203*	330.80
	1300	2920	2	7C196*	315.54	1390	3340	3	7C199*	328.14	1700	3920	5	7C204*	354.68

(*) ½ thru 1 HP, 115/230V, 60 Hz, capacitor motors; 1½ thru 5 HP, 230/460V, 60 Hz, 3-phase motors.

(†) Motor overload will result if blower is operated at static pressures below performance shown.

HEAVY-DUTY INDUSTRIAL BELT-DRIVE BLOWERS



15%, 19% & 22½" Self-Cleaning Wheels
Performance Based on AMCA Test Code
Handles Grain, Sawdust, Particle Laden Air, Etc.

Dayton

\$445.73

15½" Wheel
 Less Motor
 & Drive

These blowers are designed primarily for handling granular material, sawdust, grain, particle-laden air, industrial process gases, etc. Blowers operate close to maximum efficiency over a wide range of static pressure. Air deliveries are based on standard test codes of AMCA. Ruggedly constructed of heavy-gauge, continuous arc welded steel. Blowers run CW rotation, bottom horizontal discharge. Discharge can be changed in field for any one of 7 other standard discharge positions. V-belt drive with heavy-duty, self-aligning ball bearing pillow blocks. Radial blade wheels are continuously welded, steel plate and dynamically balanced. Finished in baked-on gray enamel. Motors and drives packed separately when these blowers are ordered complete. Request Bulletin 708.

Prepaid Freight on Shipments of 300 Lbs. & Over

Wheel Dia.	BLOWER DIMENSIONS						LESS MOTOR & DRIVE		Shpg. Wt. Less Motor
	Shaft Dia.	Inlet Dia.	Outlet H	Outlet W	Area Sq. Ft.	Overall H	Overall W	Overall D	
15½"	1½"	9¼"	9"	7½"	0.44	30¾"	35¾"	23¾"	3C106 \$445.73
19½"	1½"	11¼"	11"	9½"	0.66	35¾"	37¾"	28¾"	3C107 555.02
22½"	1½"	13¼"	13"	10½"	0.93	38¾"	39¾"	33¾"	3C108 647.14

INDUSTRIAL BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN (*)				BLOWER RPM	HP	BLOWER WITH MOTOR & DRIVE		Shpg. Wt.
	8" SP	10" SP	12" SP	14" SP			3-Phase, Ball Bearing 230/480 V, 60 Hz. Stock No.	Each Freight Ppd.	
15½"	2140	1480	—	—	2811	5	7C441	\$615.92	300
	2730	2250	1630	—	3045	7½	7C442	680.67	316
	3290	2770	2300	1710	3341	10	7C443	717.59	334
19½"	3210	2200	—	—	2257	7½	7C446	786.63	349
	3840	3050	2050	—	2445	10	7C448	821.76	373
	4760	4170	3460	2560	2711	15	7C449	889.16	432
22½"	4100	2550	—	—	1883	10	7C455	905.57	517
	5550	4560	3280	—	2096	15	7C460	978.07	580
	6500	5600	4550	3250	2250	20	7C461	1049.00	617

(*) Motor overload will result if blower is operated at static pressures below performance shown.

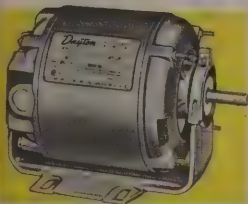
2-SPEED FAN and BLOWER MOTORS

1/4, 1/3 & 1/2 HP, 1725/1140 RPM, 115 & 230 Volts

Dayton

\$33.88

1/4 HP



Dayton 2-speed split phase motors are precision-built for dependable service on belt-driven and direct-driven exhaust and circulator fans, blowers and many similar applications. 1725/1140 RPM, 115 & 230V, 60 Hz. Resilient mount. All-angle sleeve bearings, 40°C ambient, 1.0 service factor, Class A insulation (50°C rise), continuous duty. Open, drip-proof construction. Rotation easily reversed. NEMA 48 & 56 frames. 3" shaft height on NEMA 48 frame; 3½" shaft height on NEMA 56 frame. 1/4 and 1/3 HP models have extended thru bolts on shaft end. CSA approved. Gray finish. Dayton brand.

HP RPM	HP RPM	Volts 60 Hz	NEMA Frame	—Shaft— Dia. Long	Type Shaft	Mounting Holes	Ext'd. Bolts	Full-Load Amps†	Stock No.	Retail	Each	Shpg. Wt.
1/4 1725	1/8 1140	115	48	1½" 1½"	Flat	4¼"x2¾"	Yes	5.5	5K671†	\$51.75	\$33.88	18
1/4 1725	1/12 1140	115	56Z	1½" 1½"	Flat	4¼"x3"	Yes	4.6	5K574	51.75	33.88	16
1/3 1725	1/6 1140	115	56Z	1½" 1½"	Flat	4¼"x3"	Yes	5.8	5K554	57.00	37.32	21
1/2 1725	1/4 1140	115	56	1½" 1½"	Key	4¼"x3"	—	8.3	5K423	73.50	48.12	23
1/2 1725	1/4 230	230	56	1½" 1½"	Key	4¼"x3"	—	4.8	5K556	76.50	50.08	23

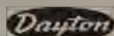
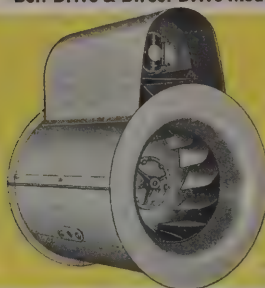
†) Low starting torque suitable for fans and other ventilating applications. (†) At 1725 RPM.

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

SEE WARRANTY INFORMATION ON PAGE 684

CENTRIFUGAL IN-LINE DUCT BLOWERS

Free-Air to 2" SP. Blowers Mount Integrally in Duct for Easy, Compact Installation
Belt-Drive & Direct-Drive Models. 11 to 24½" Extruded Aluminum, Airfoil Wheels



\$215.11

11" Wheel

Efficient, centrifugal blowers for in-line duct mounting. Combines performance of a centrifugal blower with the compactness and straight-thru flow characteristics of a vaneaxial fan. Widely used in many types of air supply and exhaust systems as boosters or where conventional blower installation is impractical. Direct-drive blowers have ball bearing motors. Belt-drive blowers have motor cover; ball bearing motor and drive packed separately when blower is ordered complete. All have aerodynamic air straightening vanes and deep-spun, low turbulence inlet cone. Housing flanges are pre-punched for mounting to duct flanges (not supplied). Side angle supports provided for suspension mounting. Removable plate allows access to all moving parts. Constructed of aluminum for light weight and structural strength. Air deliveries are based on standard test codes of AMCA.

DIRECT-DRIVE IN-LINE BLOWER MOTOR DATA & PERFORMANCE

Wheel Dia.	Stock No.	CFM AIR DELIVERY AT RPM SHOWN									MOTOR DATA			
		Free Air	1/8" SP	1/4" SP	1/2" SP	3/4" SP	1" SP	1 1/4" SP	1 1/2" SP	2" SP	RPM	HP	Volts 60 Hz	Type
11"	4C258	1160	1100	1040	905	760	575	210	—	—	1725	1/4	115	Split
13	4C259	2285	2135	2025	1895	1660	1265	1015	890	—	1725	3/4	115/230	Cap.

DIRECT-DRIVE IN-LINE BLOWER PRICES & DIMENSIONS

Wheel Dia.	Sound Rating (*)	Outlet Sq. Ft.	Bolt Hole Dia.	Bolt Circle Dia.	Housing Diameter Less Mtg. Flange	Housing Diameter Including Mtg. Flange	Length	Stock No.	Each	Shpg. Wt.
11"	B	1.15	1 1/4" (6)	16 1/4"	14 1/2"	17 1/4"	25 3/4"	4C258	\$215.11	34
13	C	1.97	1 3/4" (6)	20 3/4"	19	21 1/8"	29 7/8"	4C259	332.95	56

BELT-DRIVE IN-LINE BLOWERS LESS MOTOR & DRIVE

Wheel Dia.	Outlet Sq. Ft.	Bolt Hole Dia.	Bolt Circle Dia.	Housing Diameter Less Mtg. Flange	Housing Diameter Including Mtg. Flange	Length	Stock No.	Each	Shpg. Wt.
16 1/2"	2.89	1 3/4" (6)	24 3/4"	23"	25 3/4"	25"	3C279	\$414.09	76
20	4.20	1 3/4" (8)	29 3/4"	27 3/4"	30 3/4"	30"	3C280	523.14	185
24 1/2"	6.03	1 3/4" (8)	35	33 3/4"	35 3/8"	32"	3C281	574.71	245

BELT-DRIVE IN-LINE BLOWERS WITH 1725 RPM BALL BEARING MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN									Sound Rating	Fan RPM	Motor HP 1725 RPM	Capacitor-Start 115/230V, 60 Hz		3-Phase Motor 230/460V, 60 Hz	
	Free Air	1/8" SP	1/4" SP	1/2" SP	3/4" SP	1" SP	1 1/4" SP	1 1/2" SP	2" SP				Stock No.	Each	Stock No.	Each
16 1/2"	2878	2705	2520	2075	1500	1110	650	—	—	A	1290	3/4	7F676	\$489.91	7F679	\$481.11
	3200	3050	2880	2525	2020	1550	1215	820	—	A	1435	1	7F677	497.71	7F680	484.75
	3670	3540	3395	3100	2745	2285	1870	1560	885	A	1645	1 1/2	7F678	538.07	7F681	512.14
20	4950	4790	4630	4290	3940	3510	2945	2390	—	A	1250	1 1/2	7F682	649.93	7F683	624.00
	5425	5280	5135	4825	4520	4185	3750	3235	1910	A	1370	2	—	—	7F684	630.95
	6240	6110	5985	5785	5450	5185	4895	4560	3685	B	1575	3	—	—	7F685	654.07
24 1/2"	6220	6005	5770	5210	4625	3790	2060	—	—	A	895	2	—	—	7F686	686.27
	7335	7150	6960	6530	6050	5540	4850	4155	—	B	1055	3	—	—	7F687	712.18
	8445	8290	8125	7780	7360	6955	6525	5995	4755	B	1215	5	—	—	7F688	727.58

(*) Sound Rating Key: A = Normal sound level for operation in average areas. B = Sound level for operation in non-critical areas.

24-HOUR CORDLESS APPLIANCE TIMER

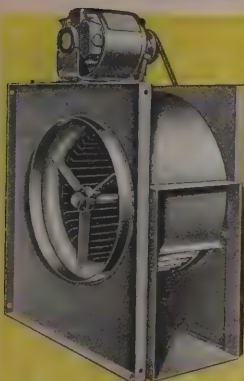


\$5.32 Economical repeating timer for On-Off control of lighting and small appliances such as coffee pots and battery chargers. Plugs directly into any wall outlet. Minimum On time, 2 1/2 hrs., maximum On time, 21 1/2 hrs. Repeats every 24 hrs. Compact and easy to set. Has manual On-Off override switch. 1500W, 12 amps, 120V, 60 Hz. UL listed. Pecan finish with white dial numbers 3 3/4" H x 2 3/4" W x 2" D. Shpg. wt. 8 oz.

No. 2E274. Dayton Small Appliance Timer. Retail \$7.98. Each.....**\$5.32**

SINGLE-INLET, 4-WAY DISCHARGE BLOWER

Adaptable to 4 Discharge Positions on the Job
9 1/2" to 18 1/2" Dia. Single-Width Wheels



Dayton

\$50.72

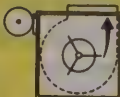
No. 2C986

Designed and built for general duct ventilation, exhausting, air conditioning, and industrial air-moving applications. Single-inlet type for quiet, efficient performance. Adaptable to any of 4 standard discharges on the job by merely re-locating adj. motor mount and motor on frame—see diagrams. Belt length remains same for each discharge position. Precision, balanced, single-width wheels on ball bearings. Heavy gauge, die-stamped steel housings. Gray finish. Resilient-mounted, automatic-reset thermally protected Dayton motor and drive packed separately when blower is ordered complete. Request Bulletin 706.

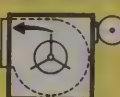
4 BASIC DISCHARGES SERVED



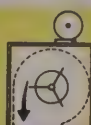
**BOTTOM
HORIZONTAL**



**UP
BLAST**



**TOP
HORIZONTAL**



**DOWN
BLAST**

Wheel Dia.	Wheel Width	Shaft Dia.	Inlet Dia.	Outlet		Overall Size			BLOWER ONLY Less Motor & Drive			Shpg. Wt. Less Mtr. & Drive
				H	W	H	W	D	Stock No.	Retail	Each	
9 1/2"	4 1/2	3/4	10	10 1/4	6 1/4	16 1/2	10 1/4	14 1/2	2C986	\$84.70	\$50.72	22
10"	6	3/4	11	11 1/4	8 1/4	18	12 1/4	16 1/2	2C987	97.21	58.21	29
12 1/2"	6	1	13 1/4	13 1/4	8 1/4	21 1/2	12 1/4	19 1/4	2C988	153.32	91.81	36
15"	6	1	15 1/4	15 1/4	8 1/4	25	12 1/4	22 1/4	2C989	155.84	145.81	47
18 1/2"	9	1	19 1/4	18 1/4	12 1/4	30	17 1/4	26 1/4	4C218	193.10	180.67	82

SINGLE-INLET BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN							BLOWER WITH 1725 RPM MOTOR & DRIVE				
	Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP	5/8" SP	Blower RPM	MOTOR DATA			All With Automatic Thermal Protection	
								HP	Volts 60 Hz	Type	Stock No.	Each
9 1/2"	1090	940	810	695	590	450	926	1/4	115	Split	7C808	\$79.19
	1210	1075	945	865	745	645	1030	1/3	115	Split	7C810	84.41
	1330	1205	1085	980	885	800	1100	1/2	115	Split	7C812	98.09
10 1/2"	1360	1205	1030	840	600	—	705	1/4	115	Split	7C814	91.23
	1485	1360	1220	1065	885	625	765	1/3	115	Split	7C816	92.56
	1680	1575	1445	1310	1175	1010	850	1/2	115	Split	7C818	106.65
	1935	1850	1740	1610	1485	1350	1030	3/4	115/230	Cap.	7C820	118.52
12 1/2"	1820	1610	1310	1030	645	—	560	1/3	115	Split	7C822	126.90
	2050	1855	1690	1390	1165	880	652	1/2	115	Split	7C824	139.91
	2345	2190	2020	1815	1505	1285	750	3/4	115/230	Cap.	7C826	150.71
	†	†	†	†	1820	1565	816	3/4	115/230	Cap.	7C828	148.90
15"	2100	1775	1450	1000	—	—	480	1/3	115	Split	7C830	182.49
	2400	2150	1880	1550	1070	—	500	1/2	115	Split	7C832	192.96
	2670	2580	2375	2100	1750	1360	605	3/4	115/230	Cap.	7C834	208.35
	3010	2830	2640	2430	2165	1830	652	1	115/230	Cap.	7C836	224.09
	3010	2830	2640	2430	2165	1830	652	1	230/460	3-Ph.	7C837(*)	215.96
18 1/2"	4390	3980	3510	2980	2320	—	467	1	230/460	3-Ph.	7C337(*)	290.44
	4950	4570	4180	3750	3250	2660	525	1 1/2	230/460	3-Ph.	7C338(*)	293.39
	5480	5190	4860	4490	4020	3480	583	2	230/460	3-Ph.	7C339(*)	300.34
	6120	5900	5630	5320	4940	4530	653	3	230/460	3-Ph.	7C340(*)	339.25

*) 3-phase rigid mounted motors—Not thermally protected.

†) **Motor Overloaded**—Not recommended for operation at this static pressure, with this HP.

Dayton Full-Fact Carton Label Makes Motor Stocking and Selection Easier

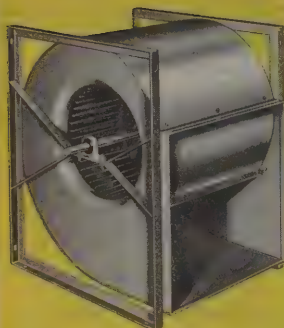
over 800 Dayton motor types have Full-Fact carton labels. The helpful Dayton label illustrates and identifies specific motor, and lists all its important electrical and mechanical



features clearly, for easy reference by dealer and user. Providing complete information on the label simplifies motor selection, helps assure customer satisfaction.

20 to 30" HIGH-CAPACITY BLOWERS

Double-Inlet, Double-Width Wheels. Up to 27,600 CFM at 1/2" SP



Dayton

\$327.98

20" Less Motor

Thousands of ventilating contractors rely upon these heavy-duty Dayton Blowers for efficient, low-cost installations. Adapted to hundreds of heating, ventilating, exhausting, cooling, humidifying, air drying and similar heavy-duty applications. Double-inlet, double-width, high-volume, low-velocity blower. Precision die stamped, heavy gauge sheet steel construction with rigid angle steel outer frame designed to be used as blower base. Can be used in four standard discharges pictured below. Sturdy, dynamically balanced blower wheel on large, permanently lubricated ball bearings. Motor is floor-mounted on adj. motor rails supplied. Motor and appropriate drive are packed separately when blower is ordered complete. Gray enamel finish. Request Bulletin 701.

USE BLOWER FOR ANY OF THESE DISCHARGES



**BOTTOM
HORIZONTAL**



**UP
BLAST**



**TOP
HORIZONTAL**



**DOWN
BLAST**

**Prepaid Freight on Shipments
of 300 Lbs. and Over**

Wheel Dia.	Shaft Dia.	Overall Dimensions Less Motor			Outlet		BLOWER ONLY Less Motor & Drive Stock No.		Shpg. Wt. Less Motor & Drive
		H	W	D	H	W		Each	
20"	1 1/8"	38	35	33	24 3/4"	24 3/4"	3C011	\$327.98	217
22"	1 1/8"	42	38	36	27 1/4"	27 1/4"	3C012	352.67	252
25"	1 1/8"	47	42	40	31 1/4"	31 1/4"	3C013	435.92	312
30"	1 1/8"	56	50	47	36 3/4"	34 3/4"	3C015	592.08	421

HIGH-CAPACITY BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN										WITH 1725 RPM MOTOR & DRIVE		
	1/8" SP	1/4" SP	3/8" SP	1/2" SP	5/8" SP	3/4" SP	1" SP	1 1/8" SP	Blower RPM		Motor HP	Stock No.	Each Frt. Ppd.
20"	7300	6000	3500	—	—	—	—	—	310	1	Cap	7C742	\$458.25
	7300	6000	3500	—	—	—	—	—	310	1	3-Ph	7C743	443.89
	#	9200	8250	7000	4900	—	—	—	400	2	Cap	7C744	498.73
	#	9200	8250	7000	4900	—	—	—	400	2	3-Ph	7C745	458.45
	#	#	10200	9250	8000	6800	—	—	450	3	3-Ph	7C746	480.79
	#	#	12800	11900	11100	10300	7900	—	525	5	3-Ph	7C747	492.58
	#	#	#	#	14200	13500	12100	10100	610	7 1/2	3-Ph	7C748	555.65
	#	#	#	#	#	#	#	#	#	#	#	#	#
22"	9500	8300	6500	—	—	—	—	—	310	1 1/2	Cap	7C749	502.38
	9500	8300	6500	—	—	—	—	—	310	1 1/2	3-Ph	7C750	475.07
	#	12100	11100	10000	8500	5500	—	—	400	3	3-Ph	7C751	505.75
	#	14200	13400	12400	11400	10250	5500	—	450	5	3-Ph	7C752	521.62
	#	#	#	#	15750	14900	13000	10300	540	7 1/2	3-Ph	7C753	579.30
	#	#	#	#	17750	17000	15500	13600	585	10	3-Ph	7C754	651.05
	#	#	#	#	#	#	#	#	#	#	#	#	#
	#	#	#	#	#	#	#	#	#	#	#	#	#
25"	12000	10900	9250	6100	—	—	—	—	270	2	Cap	7C755	602.41
	12000	10900	9250	6100	—	—	—	—	270	2	3-Ph	7C756	562.13
	#	13000	11700	10300	8200	—	—	—	310	3	3-Ph	7C757	587.39
	#	15800	14700	13300	11750	9750	—	—	380	5	3-Ph	7C758	635.30
	#	#	#	18200	17100	16000	13100	8750	435	7 1/2	3-Ph	7C759	697.81
	#	#	#	20100	19250	18250	16000	13000	470	10	3-Ph	7C760	733.86
	#	#	#	#	#	#	#	#	#	#	#	#	#
	#	#	#	#	#	#	#	#	#	#	#	#	#
30"	#	19000	15500	9000	—	—	—	—	230	3	3-Ph	7C765	823.21
	#	#	22000	19200	15200	—	—	—	270	5	3-Ph	7C766	839.55
	#	#	#	24800	22000	19000	—	—	310	7 1/2	3-Ph	7C767	898.07
	#	#	#	27600	25400	22800	13500	—	325	10	3-Ph	7C768	933.87
	#	#	#	#	#	#	24200	15000	365	10	3-Ph	7C769	935.37
	#	#	#	#	#	#	#	#	#	#	#	#	#
	#	#	#	#	#	#	#	#	#	#	#	#	#
	#	#	#	#	#	#	#	#	#	#	#	#	#

(#) Motor Overloaded—Not recommended for operation at this static pressure, with this HP.

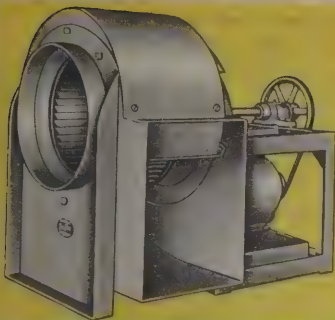
(—) Unstable Air Delivery—Not recommended for operation at this static pressure, at this RPM.

(‡) Cap: 115/230V, 60 Hz rigid mounted capacitor motor. 3-Ph: 230/460V, 60 Hz, rigid mounted 3 phase motor.

For Appropriate Integral HP Motor Control, See Index Under Controls

AIR MOVING EQUIPMENT FUNDAMENTALS—see pages 612 and 613 for discussion of the various types of air moving devices, their characteristics and glossary of terminology used throughout the industry and in this book.

12 to 24½" FORWARD-CURVE BLOWERS



High-Volume, Extra-Quiet Performance
1735 to 12,500 CFM, Test Code of AMCA

Dayton

\$182.29

No. 2C797
Less Motor
and Drive

Universally used for ventilating, air conditioning, processing, and drying exhaust systems, etc. High-volume, extra-quiet performance. Efficient, economical, rugged construction, V-belt-drive. Blower comes less motor and drive. Sturdy arc-welded housing and frame. Standard construction includes rubber mounted, dynamically-balanced, clockwise rotation, steel wheel and bottom horizontal discharge, as illustrated. Ball bearing drive. Discharge easily changed to any one of 7 standard discharge positions. Gray baked enamel finish. 1725 RPM rigid mounted motor and drive packed separately when blower is ordered complete. Air deliveries are based on standard test codes of AMCA. CFM and velocity can be varied by changing drive and motor HP. Request Bulletin 703.

Prepaid Freight on Shipments of 300 Lbs. and Over

Wheel Dia.	BLOWER DIMENSIONS							LESS MOTOR & DRIVE		Shpg. Wt. Less Motor
	Shaft Dia.	Inlet Dia.	Outlet		Overall			Stock No.	Each	
			H	W	H	W	D			
12½"	1"	13½"	13½"	9½"	27"	30"	22"	2C797	\$182.29	87
15"	1"	16½"	16½"	11½"	30"	34"	27"	2C798	232.70	118
18½"	1½"	19½"	19½"	14½"	37"	40"	32"	2C799	273.86	174
22½"	1½"	23½"	24"	17½"	44"	44"	38"	3C009	373.17	290
24½"	1½"	26½"	26½"	19½"	48"	46"	43"	3C010	516.62	373

FORWARD CURVE BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN							BLOWER RPM	HP	BLOWER WITH MOTOR & DRIVE			
	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP	1 1/4" SP	1 1/2" SP			With Capacitor Motor 115/230V, 60 Hz		With 3-Phase Motor Ball Bearing 230/460V, 60 Hz	
	Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.			Each			
2 1/2"	1735 2045 # #	1580 1910 # #	1490 1770 2280 #	— 1400 2015 2420	— 1700 2190	— — 1900	— — 1375	690 783 920 1029	1 1/2 3/4 3/4 1	7C488 7C489 7C490 7C888	\$224.72 232.89 244.75 260.18	7C491 7C492 7C493 7C889	\$236.29 242.61 249.13 251.84
15"	2645 # # #	2440 3015 # #	2200 2830 3460 #	— 2370 3145 3630	— 2720 3300	— 1870 2875	— 2050	557 645 743 814	1 1/2 3/4 1 1 1/2	7C494 7C495 7C496 7C890	283.40 296.87 312.26 338.75	7C497 7C505 7C506 7C891	293.12 301.25 303.92 310.97
8 1/4"	3780 # # #	3530 4180 # #	3255 3980 4665 #	2090 3430 4260 5250 5700	— 2880 3690 4890 5420	— — — 4410 6050	— — — 3635 4560	477 542 608 699 745	3/4 1 1 1/2 2 3	7C507 7C892 7C508 7C509 7C893	340.42 389.23 413.48 429.71 509.87	7C510 7C894 7C511 7C512 7C895	344.80 374.87 386.17 389.43 414.95
2 1/4"	5900 # # # #	5220 6650 # # #	4410 6030 7235 # #	— 4630 5940 # #	— 5290 7720 9050	— — 6660 8100	— — 4800 7350	356 412 458 553 602	1 1 1/2 2 3 5	7C708 7C896 7C709 7C710 —	494.62 508.81 527.71 608.90 —	7C711 7C898 7C712 7C713 7C899	476.67 481.03 487.43 514.02 527.45
1 1/2"	7820 # # # #	6945 # # # #	6623 8210 # # #	3795 7075 9245 # #	— 4485 8280 11050 12500	— — 6555 9800 11730	— — 9300 11000	349 398 462 544 590	1 1/2 2 3 5 7 1/2	7C714 7C900 7C715 — —	654.20 671.83 751.69 — —	7C717 7C901 7C718 7C719 7C902	626.20 631.55 656.77 671.02 733.85

Overloaded—Not recommended for operation at this SP with specified HP.

For Appropriate Integral HP Motor Control, See Index Under Controls

WATCHING WEATHERPROOF DRIVE COVERS
Weather covers for forward curve blowers, see index under Blowers, Weather Covers.

OUTLET VELOCITY
for any given static pressure can be determined by:

$$O. V. = \frac{CFM}{\text{sq. ft. outlet area}}$$

QUICK FORMULA FOR DETERMINING THE STATIC PRESSURE IN BLOWER SYSTEM

STATIC PRESSURE (S.P.) is the resistance to movement of air caused by ducts, elbows, tees, etc. As the S.P. increases less air will flow in a blower system. If the speed of the blower is increased to increase the air flow, the motor HP must also be increased. For

a 10% increase in blower speed, motor must be increased 33%. The following should be used more as a guide than a true formula:

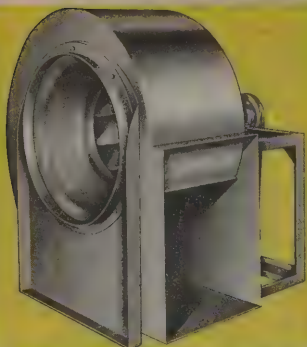
- 1) For every 100 feet of duct, allow ¼" S.P.
- 2) For every elbow, allow ⅛" S.P.
- 3) For resistance of air filters, allow ⅛" S.P.

SEE WARRANTY INFORMATION ON PAGE 684

12¼ to 24½" NON-OVERLOADING BLOWERS

Flat-Blade, Backward-Incline Wheel

1465 to 11,810 CFM. Test Code of AMCA



Dayton

\$224.59

No. 4C333

These heavy-duty blowers feature flat blade, backward-incline, steel blower wheel that operates with deep venturi cone which matches inlet contour. Non-overloading type, built for efficient continuous-duty operation on heating and cooling systems. Motor can not be overloaded at a given RPM and horsepower, regardless of the amount of static pressure applied to the system. Widely used for kitchen, restaurant, store, school, hospital, factory, and similar air supply applications. Wheels are dynamically balanced. V-belt drive. Blowers run CW rotation, bottom horizontal discharge. Discharge can be changed in field for any one of 7 other standard discharge positions. Air deliveries listed in table below are based on standard test codes of AMCA. Sturdy are welded housing and frame, gray enamel finish. Motor and variable-pitch drive packed separately when blower is ordered complete. See following page for weather covers. Request Bulletin 703. Dayton brand.

Prepaid Freight on Shipments of 300 Lbs. and Over

Wheel Dia.	BLOWER DIMENSIONS								LESS MOTOR & DRIVE		Shpg. Wt. Less Motor
	Shaft Dia.	Inlet Dia.	Outlet		Area Sq. Ft.	Overall			Stock No.	Each	
			H	W		H	W	D			
12¼"	1	13¼	13¼	9½	0.858	27	30	22	4C333	\$224.59	96
15"	1	16½	16¼	11¾	1.280	30	35	27	3C073	271.56	128
18¼"	1½	19½	19½	14¼	1.900	37	40	32	3C074	318.84	183
20"	1½	21½	21½	15½	2.320	40	42	35	3C048	359.13	253
24½"	1½	26½	26¼	19¼	3.460	48	46	43	3C049	563.65	398

NON-OVERLOADING BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN							BLOWER RPM	HP	BLOWER WITH 1725 RPM MOTOR & DRIVE				
	1/4" SP	1/2" SP	3/4" SP	1" SP	1 1/4" SP	1 1/2" SP	2" SP			With Capacitor Motor 115/230V, 60 Hz Stock No. Each		With 3-Phase Motor Ball Bearing 230/480V, 60 Hz Stock No. Each		
12 1/4"	1465	1310	1145	—	—	—	—	1430	1/4	7C630*	\$257.78	7C631	\$277.75	
	1630	1495	1345	1180	900	—	—	1565	1/3	7C632*	258.65	7C633	278.09	
	1900	1780	1655	1525	1385	1240	—	1790	1/2	7C634*	264.15	7C635	282.85	
	2205	2105	2000	1890	1775	1660	1395	2050	3/4	7C640	285.14	7C641	291.62	
	2435	2345	2250	2155	2050	1945	1725	2245	1	7C644	308.55	7C645	299.29	
	2895	2775	2700	2625	2535	2450	2275	2610	1 1/2	7C646	334.20	7C671	311.97	
	15"	2290	2130	1670	750	—	—	—	1105	1/3	7C283*	306.37	7C284	325.81
2690		2560	2370	2000	1260	—	—	1275	1/2	7C285*	313.13	7C286	331.83	
3070		2960	2840	2670	2340	2000	—	1445	3/4	7C287	331.37	7C288	337.85	
3420		3350	3260	3150	2950	2610	1150	1590	1	7C289	349.39	7C290	340.13	
3930		3850	3780	3670	3550	3400	2900	1850	1 1/2	7C291	393.99	7C292	366.22	
4400		4310	4270	4180	4080	3980	3700	2030	2	7C293	413.38	7C294	373.10	
18 1/4"		3190	2850	2400	—	—	—	—	910	1/2	7C295*	361.07	7C296	379.77
	3980	3680	3380	3080	2550	—	—	1080	3/4	7C297	380.20	7C298	386.59	
	4240	3940	3640	3300	3000	2030	—	1145	1	7C299	397.36	7C300	388.10	
	4910	4650	4420	4310	3880	3530	2300	1310	1 1/2	7C301	449.88	7C302	422.57	
	5480	5210	4990	4730	4500	4230	3600	1442	2	7C303	469.33	7C304	429.05	
	20"	4090	3665	3180	2260	—	—	—	860	3/4	7C137	444.56	7C138	451.04
		4780	4410	4030	3560	2845	—	—	982	1	7C139	461.69	7C140	452.43
5440		5110	4790	4430	3995	3410	—	1100	1 1/2	7C141	490.74	7C145	463.43	
5985		5685	5385	5080	4740	4330	2720	1200	2	7C146	510.19	7C147	469.91	
7085		6824	6570	6310	6055	5780	5125	1400	3	—	—	7C148	503.47	
24 1/2"		6430	5780	5060	4220	—	—	—	740	1	7C149	665.28	7C150	656.02
		7120	6740	6170	5380	4120	—	—	805	1 1/2	7C151	691.67	7C152	663.89
	8440	7960	7410	6930	6270	5680	—	925	2	7C153	712.75	7C154	672.47	
	9730	9300	8990	8520	7970	7450	6370	1045	3	—	—	7C155	696.61	
	11810	11450	11050	10800	10300	10100	9000	1250	5	—	—	7C156	709.21	

(* 115V, 60 Hz, split phase motor.

MATCHING WEATHERPROOF DRIVE COVERS
For weatherproof drive covers for non-overloading blowers, see Index under Blowers, Weather Covers.

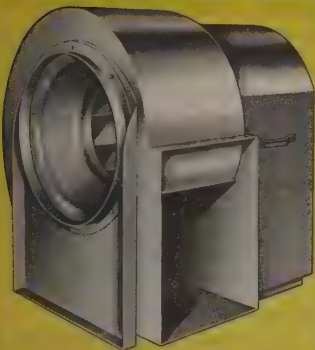
OUTLET VELOCITY
for any given static pressure can be determined by:

$$O. V. = \frac{CFM}{\text{sq. ft. outlet area}}$$

27 to 36½" NON-OVERLOADING BLOWERS

Air-Foil, Backward-Incline Bladed Wheels

To 23,400 CFM. Include Weather Covers



Dayton

\$770.66

No. 3C109
Freight
Prepaid

These heavy-duty blowers feature air-foil, backward-incline, steel blower wheel that operates with venturi cone which matches inlet. Non-overloading type designed and built for efficient, continuous-duty operation on heating and cooling systems and kitchen exhaust systems. Motor can not be overloaded at a given RPM and horsepower, regardless of the amount of static pressure applied to the system. Widely used for store, school, hospital, factory, and similar air supply applications. Wheels are dynamically balanced. V-belt drive. Blowers run CW rotation, bottom horizontal discharge. Discharge can be changed in field to any one of 7 standard discharge positions. Air deliveries listed in table below are based on standard test codes of AMCA. Sturdy arc welded housing and frame, gray enamel finish. Motor and variable pitch drives packed separately when blower is ordered complete. Weatherproof heavy-duty, ventilated weather covers furnished with all units. Request Bulletin 703. Dayton brand.

Prepaid Freight, All Blowers on This Page

Wheel Dia.	BLOWER DIMENSIONS							LESS MOTOR & DRIVE		Shpg. Wt. Less Motor	
	Shaft Dia.	Inlet Dia.	Outlet		Area Sq. Ft.	Overall			Stock No.		Each Frt. Ppd.
			H	W		H	W	D			
27"	1 $\frac{1}{4}$ "	29	29	21 $\frac{1}{4}$ "	4.19	53	48	47	3C109	\$770.66	560
30	1 $\frac{1}{4}$ "	32 $\frac{1}{4}$ "	32 $\frac{1}{4}$ "	23 $\frac{3}{8}$ "	5.17	58	51	52	3C110	868.80	715
36 $\frac{1}{2}$	1 $\frac{1}{4}$ "	39 $\frac{3}{8}$ "	39 $\frac{3}{8}$ "	28 $\frac{1}{2}$ "	7.66	72	59	62	3C111	1383.56	1052

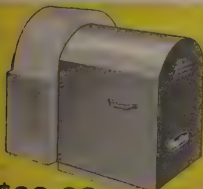
NON-OVERLOADING BLOWERS WITH MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN										BLOWER COMPLETE WITH 1725 RPM MOTOR & DRIVE		
	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP	1 1/2" SP	2" SP	2 1/2" SP	3" SP	Blower RPM	MOTOR HP	Type†	Stock No. Frt. Ppd.
27"	6950	6720	6480	5975	5360	3770	—	—	—	738	1	Cap.	7C910 \$885.78
	6950	6720	6480	5975	5360	3770	—	—	—	738	1	3-Ph.	7C911 871.42
	7900	7700	7470	7030	6550	5470	3800	—	—	818	1 1/2	Cap.	7C912 905.22
	7900	7700	7470	7030	6550	5470	3800	—	—	818	1 1/2	3-Ph.	7C913 877.91
	8590	8400	8200	7800	7370	6410	5240	—	—	893	2	Cap.	7C914 927.37
	8590	8400	8200	7800	7370	6410	5240	—	—	893	2	3-Ph.	7C915 887.09
	10230	10080	9900	9570	9210	8460	7620	6710	5520	1048	3	3-Ph.	7C916 920.65
	12300	12160	12000	11750	11470	10910	10280	9640	8900	1241	5	3-Ph.	7C917 933.25
30"	10300	10100	9800	9250	8700	7500	5810	—	—	778	2	Cap.	7C918 1023.69
	10300	10100	9800	9250	8700	7500	5810	—	—	778	2	3-Ph.	7C919 983.41
	12030	11800	11590	11120	10670	9690	8800	7300	—	893	3	3-Ph.	7C920 1010.73
	14160	13970	13800	13410	13030	12220	11350	10420	9410	1048	5	3-Ph.	7C921 1029.98
	16950	15780	15610	15280	14920	14200	13470	12730	11950	1167	7 1/2	3-Ph.	7C922 1090.31
	16930	16790	16640	16280	16020	15400	14740	14090	13400	1241	10	3-Ph.	7C923 1125.95
	15700	15360	15000	14290	13510	11800	9400	—	—	641	3	3-Ph.	7C924 1535.75
	18700	18400	18080	17490	16850	15540	14100	12400	—	757	5	3-Ph.	7C925 1555.00
36 1/2"	21080	20850	20560	20000	19500	18390	17260	16050	—	845	7 1/2	3-Ph.	7C926 1615.33
	23400	23150	22900	22440	21940	20960	20000	19000	17900	936	10	3-Ph.	7C927 1650.97

(†) Cap: 115/230V, 60 Hz, rigid mounted, capacitor-start type. 3-ph.: 230/460V, 60 Hz, rigid mounted 3-phase type.

For Appropriate Integral HP Motor Control, See MotorBook Index Under Controls

WEATHERPROOF DRIVE COVERS FOR DAYTON BLOWERS



For non-overloading and forward-curve blowers listed below. Heavy-duty steel construction. Weatherproof and ventilated. Eliminates need for penthouse or other outdoor protection. Also serves as belt guard. Gray finish. Handles allow easy removal.

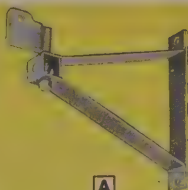
FOR BLOWER		Stock No.	Retail	Each	Shpg. Wt.
Dia.	Stock No.				
12 1/4"	2C797 & 4C333	3C004	\$54.95	\$32.89	29
15"	3C073 & 2C798	3C005	66.80	40.00	38
18 1/4"	3C074 & 2C799	3C006	82.20	49.22	54
20"	3C048	3C050	90.15	53.98	59
22 1/4"	3C009	3C007	99.15	59.38	68
24 1/2"	3C049 & 3C010	3C008	110.00	65.86	71

SEE WARRANTY INFORMATION ON PAGE 684

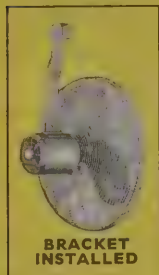
CIRCULATOR MOUNTING BRACKETS & MOTOR BASES



**BRACKET
INSTALLED**



A
**WALL OR CEILING
BRACKET**
\$4.22 Lots 4
No. 4C219



**BRACKET
INSTALLED**

B
**SUSPENSION
BRACKET**
\$1.03 Lots 4
No. 4C334



C
STRAP MOUNT
93c Lots 4
No. 4C564



D
STRAP MOUNT
\$2.23 Lots 4
No. 4C438



E
**PLATFORM
MOUNT**
\$1.60 Lots 4
No. 1C386

WALL/CEILING & SUSPENSION BRACKETS

A WALL OR CEILING BRACKET—Saves valuable floor space. Mounts circulator or oscillating fan on ceiling, wall, posts, etc. Takes up to 30" diameter fans. Steel bracket with adjustable pivot allows omnidirectional air discharge. Bracket extends 12½". 9½ x 2" mounting plate has two 5/16" dia. holes. 3/8" dia. fan mounting hole. Dark gray enamel finish. Shpg. wt. 2 lbs.

No. 4C219. Retail \$6.95. Each \$4.64; lots 4.....\$4.22

B SUSPENSION BRACKET—Used to hang fans up to 30" diameter from ceiling beams, rafters, etc. Suited for poultry and livestock circulators. Heavy gauge bracket is 15" long with 17½" wide hook at end. 3/8" dia. fan mounting hole. Dark gray enamel finish. Shpg. wt. 1 lb.

No. 4C334. Retail \$1.70. Ea. \$1.12; lots 4.....\$1.03

MOTOR MOUNTING BASES

Yoke type bases permit fast, easy assembly of air circulator head to pedestal, wall/ceiling bracket or suspension bracket. Design also allows mounting OSHA-compliance guards to motor thru-bolts without modification to guard. All bases have ¾" mounting hole in yoke. Constructed of heavy-gauge steel with baked-on gray enamel finish.

C STRAP MOUNT—For round body motors. Fit popular size shaded pole motors with shell diameter listed in table below. One-piece construction for easy assembly.

Motor Dia.	Width	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
3½"	1½"	2C680	\$1.55	\$1.04	\$0.93	¾
4½"	2½"	1C813	1.95	1.30	1.17	1

D STRAP MOUNT—For resilient base round body motors. Sturdy, yoke-type strap replaces cradle base on resilient base round body motors for mounting on fan pedestal or bracket. Three sizes to fit motors listed below. Strap is 2¾" W. Shpg. wt. 1½ lbs.

No. 4C436—For all Dayton 48 frame split phase fan motors, No. 6K066 Dayton Motor, and other 48 frame motors with a diameter of 5½ to 5¾". Retail \$3.65. Each \$2.42; lots 4.....\$2.23

No. 4C437—For all Dayton 56 & 56Z frame split phase fan motors (except No. 6K066 and motors listed under No. 4C438 below) and other 56 frame motors with a diameter of 6¼ to 6¾". Retail \$3.80. Each \$2.53; lots 4.....\$2.34

No. 4C438—For following Dayton 56 frame split phase fan motors: 5K416, 5K423, 5K554, 5K556, 5K574, 5K620, 5K654, 6K069, 6K203, 6K214, 6K222, 6K394, 6K399 and other 56 frame motors with shell diameter of 6½ to 6¾". Retail \$3.85. Each \$2.55; lots 4.....\$2.35

E PLATFORM MOUNT—For rigid base motors. For 48 and 56 frame, rigid base motors. 4½ x 5½" platform. Punched, 1½" slotted motor mounting holes. Motor mounting bolts listed below. Shpg. wt. 1 lb.

No. 1C386. Retail \$2.70. Each \$1.80; lots 4.....\$1.60

MOTOR MTG. BOLTS—For platform mount listed above. Set of four 5/16"-18 x 5/8" L carriage bolts.

No. 2C294. Retail 85c. Set. Each 56c; lots 4.....50c

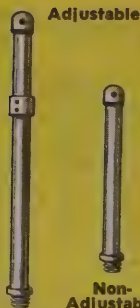
**For Complete Line of Circulator Components
For Assembling New Fans or Replacement Use
See Additional Listings on Nearby Pages.**

Large Stocks Maintained Near You

CIRCULATOR PEDESTALS, COLUMNS & BASES



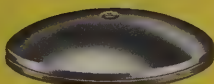
A COUNTER PEDESTAL
\$6.50 Lots 4
No. 1C758



Adjustable

Non-Adjustable

B FAN COLUMNS
USE WITH BASE (C) BELOW
Non-Adj: No. 4C415
Adj: Nos. 1C760, 4C414
\$4.85 Lots 4



C 24" DIA. FAN BASE
USE WITH FAN COLUMNS (B) ABOVE
\$22.25 Lots 4
No. 1C764



E ADJUSTABLE FLOOR PEDESTAL
\$15.25 Lots 4
Column: No. 4C416
Base: No. 4C417



D 30 & 36" DIA. FAN BASES
USE WITH FAN COLUMNS (B) ABOVE
Nos. 3C264 & 3C265
\$17.80 Lots 4
No. 3C264

A COUNTER PEDESTAL (Column & Base)—Chromed column and base for air circulators up to 24". Column is 10 1/2" H x 1 1/4" diameter and flattened top has 3/8" fan mounting hole. 11" diameter steel base with continuous rubber ring—prevents marring of counter tops. Shipped unassembled. Shpg. wt. 4 lbs.

No. 1C758. Retail \$11.35. Ea. \$6.80; Lots 4...\$6.50

B FLOOR COLUMNS (adjustable & non-adjustable)—Sturdy steel columns for floor model circulator fans using split phase or permanent split capacitor motors. 3 1/2" to 6 ft. adjustable columns are securely locked to required height with two set screws. Non-adjustable unit is 27" high. Columns made of heavy-gauge, 1 1/8" outside diameter steel tubing; flattened top has 3/8" fan mounting hole. Bottom end has 1 1/2" straight male pipe thread; fits No. 1C764 base listed below (C). Individually cartoned to protect finish.

Adjustable Columns, 3 1/2' to 6' High

Finish	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
Dark Gray(†)	4C414	\$18.80	\$11.25	\$10.80	8
Chrome	1C760	19.95	11.95	11.55	10

(†) Bottom section dark gray enamel, top section chrome plated.

Non-Adjustable Column, 27" High

Dark Gray	4C415	\$8.50	\$5.10	\$4.85	6
-----------	-------	--------	--------	--------	---

C 24" DIA. STEEL FAN BASE—Sturdy 24" diameter base for use in combination with fan columns (B) listed above. For circulators of 1/4 HP or less. Has 1 1/2" straight female pipe thread in center. Formed steel construction, dark gray enamel finish. Has continuous rubber ring—will not mar floors. Individually cartoned to protect finish. Shpg. wt. 35 lbs.

No. 1C764. Ret. \$35.95. Ea. \$23.95; Lots 4, \$22.25

D 30 & 36" DIA. TUBULAR STEEL FAN BASES—Sturdy tubular steel bases for use with fan columns (B) listed above. 30" base for circulators of 1/4 HP or less, 36" base for circulators over 1/4 HP. 1 1/2" straight female pipe thread in center. Dark gray enamel finish. Individually cartoned to protect finish.

Dia.	Stock No.	Retail	Each	Lots 4	Shpg. Wt.
30"	3C264	\$31.90	\$19.15	\$17.80	14
36"	3C265	39.90	23.95	22.25	18

E ADJUSTABLE FLOOR PEDESTAL (Column & Base)—Adjustable column and base for floor-type air circulators with up to 18" dia. fan blades with shaded pole motors. 1 1/4" outside diameter tubular steel column; flattened top section has 3/8" dia. fan mounting hole. 1 1/2" dia. base with continuous rubber ring—will not mar floors. Column secured to base with 3 screws. Chrome collar secures height adjustment from 4 to 6 ft. Baked-on dark gray enamel finish. For complete floor pedestal, as illustrated, order column and base separately listed below.

Adjustable Column Only, No. 4C416. Shpg. wt. 4 lbs. Retail \$12.20. Ea. \$7.30; Lots 4...\$7.00

Column Base Only, No. 4C417. Shpg. wt. 14 lbs. Retail \$14.30. Each \$8.55; Lots 4...\$8.25

For Complete Line of Circulator Components
See Additional Listings on Nearby Pages

FAN/MOTOR MOUNTING HARDWARE KITS (Not Illustrated)—Complete hardware mounting kit as required for fastening motor to column and guard to motor. For use with all yoke-mounted motors. Also can be used for non-yoke-mounted motors where motor is mounted on platform motor base or in a strap with a yoke-type base. Shpg. wt. 4 oz.

For Motor Type	Motor-to-Column Cap Screw (with nut)	Guard-to-Motor Spinlock Nuts	Kit	Stock No.	Retail	Each	Lots 4
Split Phase & PSC Shaded Pole	3/8"-24x1" (One)	Four	Four	4C043	\$1.15	\$0.75	\$0.67
	3/8"-24x1 1/2" (One)	Four	Four	2C628	1.15	.75	.67
		Four	Four				

SEE WARRANTY INFORMATION ON PAGE 684

CIRCULATOR GUARDS FOR 16 to 30" BLADES

Close Mesh and Open Mesh Types. Close Mesh Guards Comply with OSHA Requirements

CLOSE MESH GUARDS

Front

Rear



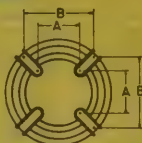
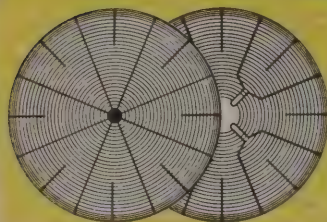
\$7.12

No. 4C432
Lots 4

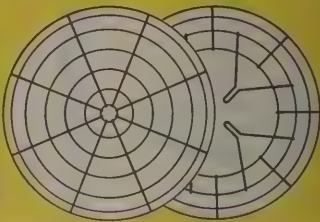
OPEN MESH GUARDS

Front

Rear



Mounting slot O. C. dimensions. See table below for minimum and maximum range.



Easy-to-install 2-piece close mesh and standard mesh guards for circulating fans. Front section snaps on rear section firmly and easily. Close mesh guards comply with OSHA requirements; wires spaced 0.40" on-center for maximum safety—can replace most open mesh guards. Close mesh guards mount to motor thru-bolts on yoke mounted or rigid base motors. Cradle type mo-

tors can not be used—see index under Fan Parts, Motor Straps for appropriate yoke-type motor mounting straps. Open mesh guards can be used with yoke, cradle or rigid type motors. Rear section of guard has four mounting slots to accommodate motor thru bolts, see diagram above and table below. Guards are chrome plated or painted aluminum finish. Packed 4 to a carton.

CLOSE MESH SAFETY GUARDS—ALUMINUM FINISH

Blade Dia.	Guard Dia.	Mtg. Slot O.C. Range A	B	Motor Fit	Guards to Carton	Stock No.	Retail	Each	Lots 4	Wt. Ea.
16"	18½"	2¼"	2¾"	Shaded Pole	4	4C432	\$12.90	\$8.61	\$7.12	6
18"	20½"	2¼"	4"	Shaded Pole, 48 & 56 Frame Motors	4	4C433	16.80	11.21	9.26	7
20"	22½"	2¼"	4"		4	4C434	20.75	13.82	11.42	8
24"	26½"	2¼"	4"		4	3C192	24.00	15.98	13.20	12
30"	32½"	2¼"	4"		1	3C194	38.45	25.63	21.47	21

CLOSE MESH SAFETY GUARDS—CHROME FINISH

20"	22½"	2¼"	4"	Shaded Pole, 48 & 56 Frame	4	4C435	\$23.15	\$15.44	\$12.75	8
24"	26½"	2¼"	4"		4	3C193	26.75	17.84	14.74	11

OPEN MESH GUARDS—ALUMINUM FINISH

20"	22½"	2¼"	4"	Shaded Pole, 48 & 56 Frame	4	2C822	\$9.80	\$6.54	\$5.41	4½
24"	26½"	2¼"	4"		4	2C824	11.65	7.65	6.41	6½

7 and 7½" THRU MOTOR BOLTS FOR ATTACHING GUARDS

Set of four bolts with Hex Spinlock Nuts. Shpg. wt. 3 oz.

Length	Thread	Motor Fit	Stock No.	Retail	Set of 4	Lots 4 Sets
7"	8-32	NEMA 48 & 56	2C844	\$1.20	\$0.80	\$0.70
7"	10-32	NEMA 56	2C903	1.20	.80	.70
7½"	10-32	NEMA 56	4C124	1.30	.85	.75



AIR CIRCULATOR OSCILLATING MOTOR

1/4 HP, 2-Speed, 1100/800 RPM, 115V, 60 Hz. Heavy-Duty Mechanism

\$76.15

Lots 4

Same heavy-duty power unit used on 20 and 24" oscillating fans. Dripproof, 2 speed, 1100/800 RPM, 1/4 HP, 115V, 60 Hz permanent split capacitor motor. Heavy-duty oscillating mechanism makes 90° or 45° sweep—can be set for straight blow. Safety clutch. ½" dia. shaft. Four extended thru bolts 4" OC for guard. 12 ft. 18/3 cord. 2-speed pull-chain switch. Black finish. Shpg. wt. 24 lbs.

No. 4C354. Oscillating Motor. Retail \$134.40. Each \$80.49; lots 4.....\$76.15

FAN GUARD ADAPTER KIT FOR OSHA REQUIREMENTS

Modifies 18 to 32" dia., Nos. 4C338 thru 4C343, Dayton close mesh fan guards (no longer offered) to conform with Occupational Safety and Health Act (OSHA) requirements as specified in OSHA Program directive #100-5. Designed for use with Dayton motors. Kit consists of wire adapter ring to cover area between motor and guard, solid adapter plate to cover center opening in front section of guard, and 4 washers. Installation instructions included.

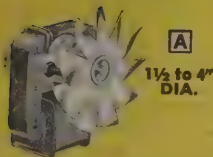
No. 4C411. Adapter Kit. Shpg. wt. 4 oz. Retail \$1.85. Was \$1.00. Each, while stocks last.....\$0.50

1½ to 10" FAN BLADE & MOTOR COMBINATIONS

Blades Available Separately or with Proper Motors. Hundreds of Applications

25c

No. 2C947 Blade
Lots 10



A

1½ to 4"
DIA.



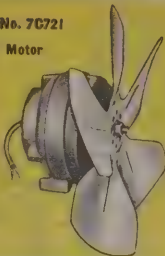
\$2.88

No. 7C721

Blade with Motor

B

6 to 10"
DIA.
WITH
HUB



C

8 to 10"
DIA.
FOR
UNIT
BEARING
MOTORS

Efficient, one-piece, stamped aluminum fan blades for cooling or exhausting jobs. Used in electronic equipment, appliances, kitchen & bath fans, etc. All units require CW rotation facing air discharge—With motors running CW (facing shaft) air discharge will be away from motor, and with motors running CCW (facing

shaft) air discharge will be towards motor. Blades fasten to motor shaft by means of slotted head set screw in hub, except those for unit bearing motors. Air deliveries specified are obtained with motor HP & RPM listed. Proper 115V, 60 Hz motor and blade packed separately when combination is ordered.

1½" to 6" HUB-TYPE BLADES RECOMMENDED FOR USE WITH 3000 RPM STANDARD MOTORS

Dia.	Wings	Bore	Fig.	CFM	BLADE ONLY				BLADE WITH MOTOR		
					Stock No.	Retail	Each	Lots 10	HP	Stock No.	Each
1½"	10	⅜"	A	25	2C947	\$0.42	\$0.28	\$0.25	1/500	7C721	\$2.88
2"	10	⅜"	A	35	2C948	.45	.30	.27	1/500	7C722	2.90
2½"	10	⅜"	A	45	2C949	.48	.32	.29	1/500	7C723	2.92
3"	10	⅜"	A	60	2C950	.51	.34	.31	1/250	7C724	3.19
3½"	10	⅜"	A	100	2C951	.54	.36	.33	1/150	7C725	3.31
4"	10	⅜"	A	200	2C953	.57	.38	.35	1/150	7C727	3.33
4½"	10	⅜"	A	300	4C465	.72	.48	.44	1/150	7F609	3.42
5"	10	⅜"	A	400	4C467	.78	.52	.47	1/70	7F610	4.42
6"	4	⅜"	A	450	4C469	.90	.60	.55	1/70	7F611	4.50
6"	4	⅜"	B	425	2C627	.95	.36(*)	—	1/250	7C387	3.24
6½"	4	⅜"	B	500	4C471	.93	.62	.56	1/70	7F612	4.51

3½" to 10" HUB-TYPE BLADES RECOMMENDED FOR USE WITH 1500 RPM STANDARD MOTORS

Dia.	Wings	Bore	Fig.	CFM	BLADE ONLY				BLADE WITH MOTOR		
					Stock No.	Retail	Each	Lots 10	HP	Stock No.	Each
3½"	10	¼"	A	50	2C952	\$0.54	\$0.36	\$0.33	1/100	7F613	\$5.94
4"	10	¼"	A	100	2C954	.57	.38	.35	1/100	7F614	5.96
4½"	10	¼"	A	150	4C466	.72	.48	.44	1/100	7F615	6.05
5"	10	¼"	A	200	4C468	.78	.52	.47	1/100	7F616	6.08
6"	4	¼"	B	225	2C556	.95	.36(*)	—	1/100	7C369	5.97
6"	4	¼"	B	225	4C470	.90	.60	.55	1/100	7F617	6.16
6½"	4	¼"	B	250	4C472	.93	.62	.56	1/100	7F618	6.17
7"	5	¼"	B	300	4C473	1.15	.76	.69	1/100	7F668	6.30
8"	5	¼"	B	400	4C475	1.40	.92	.84	1/100	7F669	6.45
9"	6	¼"	B	500	4C477	1.60	1.08	.98	1/70	7F670	6.71
10"	6	¼"	B	700	2C538	2.50	.66(*)	—	1/70	7C352	6.39
10"	5	¼"	B	700	4C479	1.80	1.20	1.09	1/50	7F671	7.55

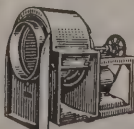
7 to 10" HUB-LESS BLADES FOR USE WITH THREADED SHAFT UNIT BEARING MOTORS

Dia.	Wings	Bore	Fig.	CFM	BLADE ONLY				BLADE WITH MOTOR		
					Stock No.	Retail	Each	Lots 10	HP	Stock No.	Each
7"	5	—	C	300	4C474	\$0.95	\$0.62	\$0.57	1/125	7F672	\$7.27
8"	5	—	C	400	4C476	1.20	.78	.71	1/125	7F673	7.41
9"	5	—	C	500	4C052	1.65	.49(*)	—	1/100	7C109	7.29
9"	5	—	C	500	4C478	1.40	.92	.84	1/100	7F674	7.64
10"	5	—	C	700	4C480	1.60	1.06	.96	1/60	7F675	8.24

(*) While stocks last.

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

3-WING ALUMINUM AIR CIRCULATOR BLADES



Bright Aluminum Wings, Embossed for Strength and Rigidity
Clockwise Rotation, Facing Discharge. Statically Balanced

Dayton

\$2.54

12", Lots 4

The complete in-stock line of 3-wing statically balanced, bright finish aluminum blades. Wings and spiders are embossed for extra strength and rigidity. Hub is keyed and locked into spider by staking at several points. Hub and spider are cadmium plated. Clockwise rotation facing discharge, hub on intake side. Blades have straight bore with hex head set screw in hub. Blades packed 2 per carton.

NEMA AIR DELIVERIES WITH REQUIRED HP AT RPM FOR AIR CIRCULATORS

Blade Dia.	1725 RPM CFM	1500 RPM HP	1500 RPM CFM	1140 RPM HP	1140 RPM CFM	1000 RPM HP	1000 RPM CFM	Bore	Stock No.	Retail	Each	Lots 4 Asst'd.	Shpg. Wt.
12"	—	—	1200	1/40	—	—	800	1/100	2C354	\$5.10	\$3.07	\$2.54	1
	—	—	1290	1/25	—	—	860	1/70	2C356				
	—	—	1290	1/25	—	—	860	1/70	2C855				
	—	—	1430	1/20	—	—	950	1/60	2C842				
	—	—	1430	1/20	—	—	950	1/60	2C683				
	1870	1/8	—	—	1230	1/25	—	—	4C348				
	1870	1/8	—	—	1230	1/25	—	—	4C349				
	—	—	—	—	—	—	—	—	4C459				
16"	—	—	1580	1/30	—	—	1060	1/70	2C406	6.65	3.98	3.29	1 1/2
	2140	1/12	1860	1/15	1410	1/25	1240	1/40	2C358				
	2870	1/6	—	—	1900	1/17	—	—	2C359				
	2870	1/6	—	—	1900	1/17	—	—	4C460				
18"	1700	1/12	1480	1/20	1090	1/50	990	1/60	2C360	8.05	4.82	3.99	2
	3830	1/4	3340	1/6	2550	1/12	2220	1/20	2C361				
	3830	1/4	3340	1/6	2550	1/12	2220	1/20	4C461				
	4450	1/3	—	—	2940	1/10	—	—	2C362				
	4450	1/3	—	—	2940	1/10	—	—	2C363				
	—	—	—	—	—	—	—	—	—				
20"	2720	1/10	2370	1/15	1800	1/40	1560	1/40	2C364	9.10	5.46	4.44	2
	4230	1/4	3680	1/6	2800	1/15	2450	1/25	2C365				
	4230	1/4	3680	1/6	2800	1/15	2450	1/25	4C462				
	—	—	4870	1/4	3720	1/10	3260	1/15	4C230				
	5000	1/3	—	—	3300	1/10	2900	1/15	2C368				
	5000	1/3	—	—	3300	1/10	2900	1/15	2C367				
	6050	1/2	—	—	4030	1/6	3500	1/10	2C369				
	6050	1/2	—	—	4030	1/6	3500	1/10	4C349				
	—	—	—	—	—	—	—	—	—				
	—	—	—	—	—	—	—	—	—				
24"	4520	1/4	—	—	2960	1/12	2600	1/20	2C370	12.85	7.70	6.36	4
	4520	1/4	—	—	2960	1/12	2600	1/20	4C463				
	5600	1/3	4950	1/4	3630	1/10	3300	1/12	4C231				
	5600	1/3	4950	1/4	3630	1/10	3300	1/12	4C464				
	6620	1/2	—	—	4380	1/6	3840	1/8	2C372				
	6620	1/2	—	—	4380	1/6	3840	1/8	2C373				
	—	—	—	—	5550	1/4	—	—	4C229				
30"	7580	1/2	—	—	5000	1/6	4380	1/8	2C374	17.10	10.76	8.36	5
	—	—	—	—	8650	1/2	—	—	4C457				

36" 2-SPEED HIGH-VOLUME MOBILE CIRCULATOR

10,300/6810 CFM. 1/2 HP 2-Speed Dayton Motor
Front and Rear Guards Meet OSHA Requirements

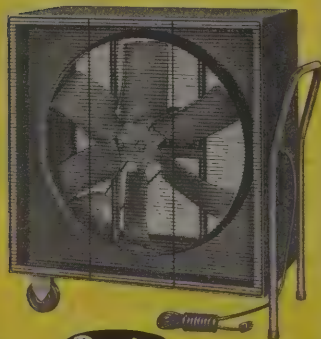
\$262.55

Complies with
OSHA
Requirements

High-volume, heavy-duty, 2-speed mobile air circulator for the big cooling jobs in factories, warehouses, laundries, garages, etc. Easily rolled to various locations on sturdy, 4" dia., hard rubber casters. 6-wing, balanced steel fan blade delivers 10,300/6810 CFM at low 410/270 RPM for lower noise levels. Matched deep venturi assures high efficiency and directs air flow to desired area. Fan blade is belt driven by Dayton, 1/2 HP, 2-speed, 1725/1140 RPM, 9.3 amp, 115V, 60 Hz, split phase motor. Ball bearing fan blade shaft pillow blocks are self-aligning and pre-lubricated for quietness and long life. Rugged, heavy-duty construction throughout.

Close mesh front and rear guards meet OSHA requirements. Housing is heavy gauge steel finished in dark grey enamel. Sturdy tubular steel handle also stores cord set and protects High-Off-Low switch conveniently mounted on side of housing. 12 ft. 16/3 SJ grounding type cord set with 3-prong molded plug. Shipped completely assembled, ready for use. 47 3/4" H x 46 1/4" W x 17 3/4" D. Shpg. wt. 155 lbs.

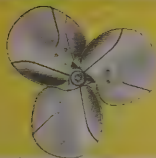
No. 3C187. Circulator. Retail \$438.45. Each **\$262.55**



Dayton

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

3-WING ALUMINUM EXHAUST FAN BLADES



Bright Aluminum Wings, Embossed for Strength and Rigidity
Clockwise Rotation, Facing Discharge. Statically Balanced

Dayton

\$2.54

12", Lots 4

The complete in-stock line of 3-wing statically balanced, bright finish aluminum blades. Wings and spiders are embossed for extra strength and rigidity. Hub is keyed and locked into spider by staking at several points. Hub and spider are cadmium plated. Clockwise rotation facing discharge, hub on intake side. Blades have straight bore with hex head set screw in hub. Blades packed 2 per carton.

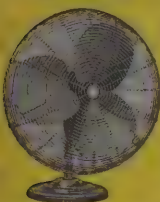
AMCA AIR DELIVERIES WITH REQUIRED HP AT RPM SHOWN FOR EXHAUST SYSTEMS

If Blade Is Used In System Over 1/4" SP Increase Motor HP to Next Larger Size

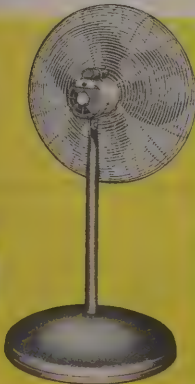
Blade Dia.	Free Air	1/8" SP	1/4" SP	RPM	HP	Free Air	1/8" SP	1/4" SP	RPM	HP	Bore	Stock No.	Retail	Each	Lots 4 Asst'd.	Shpg. Wt.
12"	900	770	565	1500	1/40	600	345	70	1000	1/100	3/8"	2C354	\$5.10	\$3.07	\$2.54	1
	970	855	645	1500	1/25	645	410	140	1000	1/70	3/8"	2C356				
	970	855	645	1500	1/25	645	410	140	1000	1/70	3/8"	2C855				
	1110	950	750	1500	1/20	740	470	275	1000	1/60	3/8"	2C842				
	1110	950	750	1500	1/20	740	470	275	1000	1/60	3/8"	2C863				
	1430	1335	1065	1725	1/8	945	670	390	1140	1/25	3/8"	4C348				
	1430	1335	1065	1725	1/8	945	670	390	1140	1/25	3/8"	4C459				
16"	1215	1050	815	1500	1/30	810	555	235	1000	1/70	3/8"	2C406	6.85	3.98	3.29	1 1/2
	1475	1330	1080	1500	1/15	985	735	380	1000	1/40	3/8"	2C358				
	2275	2150	1975	1725	1/5	1505	1280	950	1140	1/17	3/8"	2C359				
	2275	2150	1975	1725	1/5	1505	1280	950	1140	1/17	3/8"	4C460				
18"	1285	965	675	1500	1/20	880	420	105	1000	1/60	3/8"	2C360	8.05	4.82	3.99	2
	2845	2680	2525	1725	1/4	1875	1625	1125	1140	1/12	3/8"	2C361				
	2845	2680	2525	1725	1/4	1875	1625	1125	1140	1/12	3/8"	4C461				
	3275	3125	2875	1725	1/3	2155	1900	1375	1140	1/11	3/8"	2C362				
	3275	3125	2875	1725	1/3	2155	1900	1375	1140	1/11	3/8"	2C363				
20"	1635	1375	1090	1500	1/15	1075	700	465	1000	1/40	3/8"	2C364	9.10	5.46	4.44	2
	2920	2760	2575	1725	1/4	1930	1830	1215	1140	1/15	3/8"	2C365				
	2920	2760	2575	1725	1/4	1930	1830	1215	1140	1/15	3/8"	4C462				
	3250	3050	2820	1500	1/4	2165	1825	1250	1000	1/15	3/8"	4C230				
	3445	3275	3110	1725	1/3	2280	2040	1585	1140	1/10	3/8"	2C368				
	3445	3275	3110	1725	1/3	2280	2040	1585	1140	1/10	3/8"	2C367				
	4175	4020	3850	1725	1/2	2775	2475	2050	1140	1/6	3/8"	2C369				
	4175	4020	3850	1725	1/2	2775	2475	2050	1140	1/6	3/8"	4C349				
24"	3250	2900	2635	1725	1/4	2135	1865	1210	1140	1/12	3/8"	2C370	12.85	7.70	6.36	4
	3250	2900	2635	1725	1/4	2135	1865	1210	1140	1/12	3/8"	4C463				
	3460	3200	2860	1500	1/4	2300	1880	1325	1000	1/12	3/8"	4C231				
	3995	3600	3100	1100	1/4	2910	2300	1725	800	1/12	1 1/2"	4C229				
	3975	3725	3450	1725	1/3	2625	2175	1750	1140	1/10	3/8"	4C231				
	3975	3725	3450	1725	1/3	2625	2175	1750	1140	1/10	3/8"	4C464				
	4750	4550	4300	1725	1/2	3145	2775	2350	1140	1/6	3/8"	2C372				
	4750	4550	4300	1725	1/2	3145	2775	2350	1140	1/6	3/8"	2C373				
30"	5875	5000	4350	1725	1/2	3875	2775	2200	1140	1/6	3/8"	2C374	17.10	10.76	8.36	5
	6700	6200	5700	1100	1/2	4900	4150	3225	800	1/4	3/8"	4C457				

\$98.09

7F406



WITH COUNTER PEDESTAL



WITH NON-ADJUSTABLE FLOOR PEDESTAL

24" ADJUSTABLE SPEED FANS

Head and Mounting Shipped Separately

Circulator head comes completely assembled, however it must be fastened to pedestal using hardware supplied. Simple hand tools required.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel, chrome plated for attractive appearance.

MOTORS—115V, 60 Hz with automatic reset thermal protection.

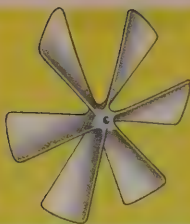
FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

CORD SETS—12 foot, 16/3 line cord with grounding type molded plug.

COUNTER PEDESTAL—10 1/2" high chrome column on 11" diameter chrome base with rubber ring to protect counter, desk, etc.

NON-ADJUSTABLE FLOOR PEDESTAL—27" high column on 24" diameter base with protective rubber ring. Gray enamel finish.

Circulator Type	Stock No.	Each	Shpg. Wt.
Circulator Less Mounting	4C153	\$91.59	34
With Counter Pedestal	7F406	98.09	39
With Non-Adj. Floor Pedestal	7C257	118.69	74



12 to 42" SPRAY BOOTH FAN BLADES

12 to 42", Non-Sparking, Balanced, Cast Aluminum Construction
Use with Dayton or Other Fans of Similar Design



\$8.60

12" Dia.

High-quality, balanced, 4 and 6 wing cast aluminum fan blades. Can be used as replacements for all Dayton Spray Booth Fans listed in this catalog. Will also fit other spray booth fans of similar design and equivalent fan blade diameters. Constructed of non-sparking aluminum for complete safety in spray booth use and other applications involving exhaust of combustible materials such as vapors, chemicals, grain products, etc. Heavy-duty throughout. Fan blades are carefully balanced for smooth, vibration-free performance and maximum air delivery.

PERFORMANCE & SPECIFICATIONS FOR DAYTON SPRAY BOOTH FAN BLADES

Blade Dia.	CFM Free Air	Fan RPM	HP	Wings	Hub Bore	Fits Dayton Fan No.	Stock No.	Each	Shpg. Wt.
12"	1180 1300	1725 2010	1/4 1/3	4 4	3/4" 3/4"	2C860	2C861	\$8.60	1 1/2
18"	4050 4350	1725 1850	1/2 3/4	6 6	5/8" 5/8"	4C249	2C829	18.60	3
24"	7800 8600 9600	1530 1700 1900	1 1 1/2 2	6 6 6	5/8" 5/8" 5/8"	4C250	4C251	22.42	4
27"	9600 10,800 11,500	1440 1600 1725	1 1 1/2 2	6 6 6	3/4" 3/4" 3/4"	3C055	4C255	34.83	9
30"	12,300 15,450 17,000	1225 1362 1560	2 3 5	6 6 6	1 1 1	3C052	4C256	63.45	16
34"	16,800 20,300 22,800	1165 1330 1490	2 3 5	6 6 6	1 1 1	3C053	4C257	62.95	12
42"	26,200 32,400 36,200	1086 1215 1340	5 7 1/2 10	4 4 4	1 1/2" 1 1/2" 1 1/2"	3C128	4C328	90.60	24

2" THICK PAINT ARRESTOR PADS

For Spray Booth Overspray Applications. 1/2" Oversize for Proper Sealing
Helps Reduce Paint Maintenance Costs. Traps Paint Evenly. UL Listed

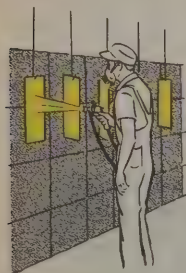
Ctn. 50
20x20x2"

\$14.40

Lots 5

High quality paint arrestor pads for all spray booth overspray applications. Improves efficiency, reduces maintenance costs. Glass fibers are loosely woven to trap paint evenly thruout pad. Sizes listed are 1/2" oversize on length and width to allow for proper sealing of edges. Sold only in cartons of 50. UL listed.

Size	Stock No.	Retail	—Cartons of 50 Pads— Each	Lots 5	Shpg. Wt.
16x20x2"	1W998	\$19.95	\$ 9.00(*)	—	6
16x25x2"	1W999	19.95	9.00(*)	—	8
20x20x2"	2W001	23.82	15.88	\$14.40	7 1/2
20x25x2"	2W002	26.12	17.41	15.79	8 1/2



(*) While stocks last; were \$13.50 each.

DUST RESPIRATOR



\$1.35

Lots 12

Safeguards wearer from dust, mist and non-toxic paint spray. Soft, pliable, non-allergenic facepiece with reverse headband. Washable polymer filter. Welshgard brand (7200). Wt. 3 oz.
No. 5X615. Retail \$2.57. Each \$1.56; lots 12, \$1.35

REPLACEMENT FILTERS, PKG. OF 5

Five polymer filters for 5X615 (above). Wt. 1 oz.
No. 5X616. Retail \$2.35. Each \$1.08; lots 12, \$0.93

Let Grainger Supply Your Pump Needs

B/M DUST RESPIRATOR



Bureau of Mines approved. Schedule 21B. For protection against dusts, chromic acid mists, etc. Replaceable filter. Welshgard brand (7100). 5 oz.
No. 5X801. Retail \$11.12. Each \$6.94; lots 6, \$6.02

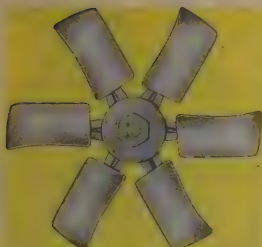
REPLACEMENT FILTERS, PKG. OF 5

Five static-wool filters for 5X801. Wt. 1 oz.
No. 5X802. Retail \$1.97. Each \$1.10; lots 6, \$0.95

OPEN ACCOUNT TERMS granted on request to all resellers with established credit.

24 to 60", 6 & 8-WING AXIAL FAN BLADES

Statically Balanced. For Dayton Belt-Driven Industrial/Commercial Exhaust Fans



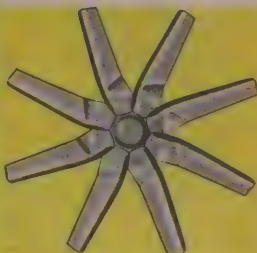
6-WING BLADES

Dayton

\$16.86

24", 6-Wing

Factory replacements for Dayton industrial/commercial exhaust fans and other similar belt-driven exhaust fans. Statically balanced. Steel construction. Hub on discharge side of vertical models, intake side of horizontal models. 6-wing blades have fixed bore with two locking setscrews; 54 & 60" have 1/4 x 1/8" keyway. All 8-wing blades have split taper bushing. Blades are for clockwise rotation facing discharge. Red enamel finish. Individually cartoned.



8-WING BLADES

6-WING BLADE PERFORMANCE FOR DAYTON VERTICAL & HORIZONTAL FANS

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN					Fan RPM	HP 1725 RPM
	Free Air	1/8" SP	1/4" SP	3/8" SP			
24"	5,400	4,500	2,350	—	675	1/4	
	6,000	5,200	3,250	2,150	740	1/3	
	6,900	6,250	5,350	3,200	845	1/2	
	7,850	7,350	6,650	5,700	970	3/4	
30"	7,100	4,650	—	—	445	1/4	
	7,550	6,150	2,450	—	485	1/3	
	8,950	7,650	4,600	—	560	1/2	
	10,200	9,200	7,400	4,300	640	3/4	
36"	11,000	10,200	9,000	6,100	690	1	
	9,650	5,800	—	—	380	1/3	
	11,050	7,200	4,450	—	440	1/2	
	12,650	9,400	6,750	3,950	500	3/4	
42"	13,650	11,900	8,100	5,750	545	1	
	15,700	13,900	10,400	8,400	625	1 1/2	
	13,600	8,200	—	—	350	1/2	
	15,600	10,600	6,800	—	400	3/4	
48"	16,800	13,400	8,500	4,800	430	1	
	19,300	16,500	11,700	8,600	495	1 1/2	
	21,200	19,100	14,300	11,200	545	2	

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN					Fan RPM	HP 1725 RPM
	Free Air	1/8" SP	1/4" SP	3/8" SP			
48"	18,400	11,500	6,300	—	335	3/4	
	19,800	13,600	8,300	4,400	365	1	
	22,700	18,200	12,000	8,200	415	1 1/2	
	25,100	21,300	15,000	11,200	455	2	
54"	28,700	25,500	20,300	15,600	525	3	
	23,100	13,200	8,100	—	305	1	
	26,400	19,300	11,700	8,200	350	1 1/2	
	29,100	22,300	14,100	10,800	385	2	
60"	33,100	28,800	20,900	15,100	440	3	
	39,200	35,800	31,000	22,700	525	5	
	30,000	20,200	11,800	—	300	1 1/2	
	33,400	25,400	16,600	11,400	330	2	
60"	37,000	31,600	22,000	15,000	380	3	
	45,200	40,000	31,200	25,200	450	5	

AIR DELIVERIES ARE BASED ON STANDARD TEST CODES OF AMCA

8-WING BLADE PERFORMANCE FOR DAYTON VERTICAL FANS

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN						Fan RPM	HP 1725 RPM
	Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP			
36"	10,400	8,150	6,350	4,500	—	475	1/2	
	11,750	9,900	8,200	6,600	4,000	560	3/4	
	13,000	11,350	9,650	8,400	6,600	630	1	
	14,600	13,250	11,650	10,500	9,400	695	1 1/2	
	16,100	14,900	13,500	12,000	11,200	775	2	
36" (*)	9,360	7,340	5,720	4,050	—	490	1/2	
	10,580	8,910	7,380	5,940	3,600	575	3/4	
	11,700	10,220	8,890	7,560	5,940	650	1 1/2	
	13,140	11,930	10,490	9,450	8,460	765	1 1/2	
	14,490	13,410	12,150	10,800	10,080	830	2	

(*) Reversible blade for intake/exhaust fans.

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN						Fan RPM	HP 1725 RPM
	Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP			
48"	27,200	26,200	23,400	20,300	17,200	570	3	
	32,000	31,000	29,800	28,000	24,800	685	5	
	37,000	36,000	34,700	32,800	31,200	780	7 1/2	
	42,500	41,300	40,200	39,200	38,000	890	10	
54"	40,000	38,000	36,000	33,200	29,200	650	5	
	45,500	44,000	42,000	39,600	36,400	820	7 1/2	
	49,500	48,000	46,800	44,800	42,800	880	10	
	56,800	55,600	54,400	52,800	51,200	800	15	
60"	51,000	49,200	47,000	43,800	39,700	505	7 1/2	
	56,000	54,500	52,500	50,000	46,500	560	10	
	64,000	62,500	61,000	59,000	56,500	620	15	
	70,400	69,000	66,500	65,000	62,000	680	20	

(*) Reversible blade for intake/exhaust fans.

PRICES FOR 6-WING BLADES

Blade Dia.	Hub Bore	Stock No. Vertical	Stock No. Horizontal	Retail	Each	Shpg. Wt.
24"	1"	4C372	4C373	\$25.30	\$16.86	8
30"	1"	3C195	3C201	32.80	21.87	16
36"	1"	3C196	3C202	43.60	29.06	24
42"	1"	3C197	3C203	56.75	37.84	32
48"	1 1/16"	3C198	3C204	68.25	45.49	37
54"	1 1/8"	3C199	—	91.65	61.09	48
60"	1 1/2"	3C200	—	108.55	72.35	53

PRICES FOR 8-WING BLADES

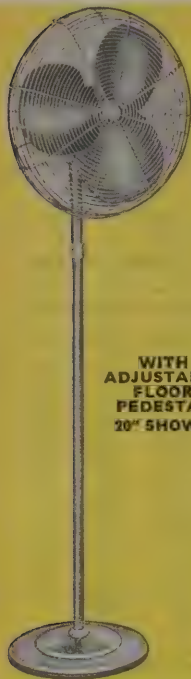
Blade Dia.	Hub Bore	Stock No. Vertical	Retail	Each	Shpg. Wt.
36"	1"	3C028	\$52.20	\$31.25	16
36(*)	1"	3C029	52.20	31.25	16
48"	1 1/16"	3C112	186.30	111.54	53
54"	1 1/8"	3C113	198.90	119.10	67
60"	1 1/2"	3C114	214.25	128.30	74

NOTE: Dayton fan blades listed above can be used for other applications. Blades are suitable for all-position mounting, however note hub position for intended application.

SEE WARRANTY INFORMATION ON PAGE 684

18 & 20" 2-SPEED ECONOMY AIR CIRCULATORS

Assembled, with Choice of Four Mountings or Less Mounting. Chrome Plated Guards



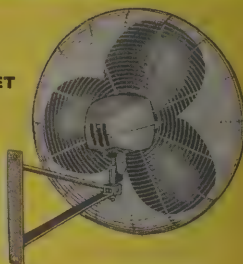
WITH
ADJUSTABLE
FLOOR
PEDESTAL
20" SHOWN

\$37.97

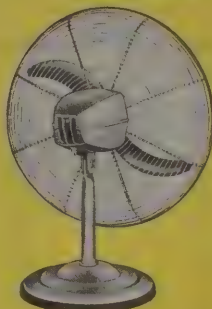
No. 7F387

Comply with
OSHA
Requirements

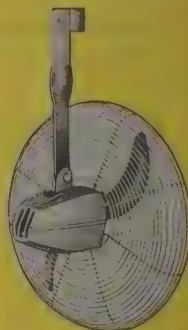
WITH WALL
CEILING BRACKET
20" SHOWN



ALL ARE
EXTRA
QUIET



WITH COUNTER
PEDESTAL
18" SHOWN



WITH SUSPENSION
BRACKET
18" SHOWN

Circulator comes completely assembled, however, it must be fastened to mounting (pedestal or bracket) using hardware supplied. Simple hand tools required.

GUARDS—comply with OSHA requirements. Two-piece, close mesh, sturdy steel, chrome plated for attractive appearance.

MOTORS—1500/1000 RPM, 115V, 60 Hz with automatic reset thermal protection. 1/30 HP on 18" circulators, 1/15 HP on 20" units. Motors enclosed in molded gray plastic housing.

FAN BLADES—2-wing black plastic on 18" circulators, 1600/1100 CFM. 3-wing blue anodized aluminum on 20" circulators, 2370/1560 CFM.

CORD SETS—12 foot, 18/3 cord. Grounding type molded plug. Appropriate switch mounted on motor housing.

MOUNTING FEATURES

COUNTER PEDESTAL—10 $\frac{1}{2}$ " H chrome column on 11" dia. chrome base with rubber ring to protect counter, desk, etc.

ADJUSTABLE FLOOR PEDESTAL—4 to 6 ft. height adjustment and 14 $\frac{1}{2}$ " dia. base. Gray enamel finish. Bases have rubber ring to protect floor.

WALL/CEILING BRACKET—Heavy-duty, steel bracket extends 12 $\frac{1}{2}$ " from 9 $\frac{1}{2}$ " x 2" steel mounting plate with $\frac{5}{16}$ " dia. mounting holes. Adjustable pivot allows air stream to be directed where needed. Gray finish. Widely used in poultry and livestock houses.

SUSPENSION BRACKET—Sturdy 15" long bracket with 1 $\frac{1}{8}$ " wide hook. Gray finish.

CIRCULATOR TYPE	18" CIRCULATORS				20" CIRCULATORS			
	Stock No.	Retail	Each	Shpg. Wt.	Stock No.	Retail	Each	Shpg. Wt.
Circulator Less Mounting	4C503	\$61.70	\$36.94	14	4C504	\$83.20	\$49.83	20
With Counter Pedestal	7C583	72.55	43.44	19	7F661	94.10	56.33	24
With Adj. Floor Pedestal	7C584	87.15	52.19	34	7F662	108.70	65.08	39
With Wall/Ceiling Bracket	7F386	69.45	41.58	16	7F663	91.00	54.47	21
With Suspension Bracket	7F387	63.40	37.97	15	7F664	84.95	50.86	20

Quantity Motor Prices for OEM Production — Available from Grainger

Quantity prices are available to original equipment manufacturers from Grainger on most of the 1,297 electric motor types listed in this MotorBook. Most standard

motor needs can be shipped from local Grainger stocks as needed. Carloads of standard motors are stocked in our Central Distribution Center. Ask our salesman.

COUNTER PEDESTAL AIR CIRCULATORS

Shipped Unassembled for Maximum Economy. Select from 20 Models

\$33.41
No. 7C206

Comply with
OSHA
Requirements



ADJUSTABLE
SPEED
CIRCULATORS



OSCILLATING
CIRCULATORS

Your low cost on these unassembled circulating fans lets you price them below any competition of equal quality—and still make good profits. Circulators come complete with hardware, ready to assemble in minutes using hand tools.

CIRCULATOR FEATURES

PEDESTALS—10½" high chrome column and 11" diameter chrome base with protective rubber ring. Mounts on counter, desk, etc.

MOTORS—All are Dayton, 115V, 60 Hz with automatic reset thermal protection. Totally enclosed models recommended for dirty or moist environments.

FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel with painted aluminum finish.

CORD SETS—3-conductor with grounding type molded plug and appropriate feed-thru switch, except oscillating models which have pull-chain switch mounted on motor.

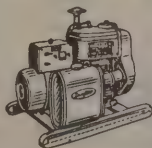
Illustrated Completely Assembled;
Shipped as Separate Components

Blade Dia.	CFM	RPM	HP	Overall Height	Cord Set Length	Stock No.	Each	Shpg. Wt.
ECONOMY CIRCULATORS WITH DRIPPROOF, SHADED POLE MOTORS								
16"	1580/1060	1500/1000	1/30	23"	9'	7C206	\$33.41	17
16	1860/1240	1500/1000	1/15	23	9	7C213	39.43	19
18	1480	1500	1/15	24	8	7C218	38.79	21
18	1480/990	1500/1000	1/15	24	9	7C220	42.73	21
20	2370	1500	1/15	25	8	7C223	41.85	22
20	2370/1560	1500/1000	1/15	25	9	7C225	45.79	22
HIGH-VOLUME CIRCULATORS WITH DRIPPROOF, SPLIT PHASE MOTORS								
18"	3830	1725	1/4	24"	8'	7C255	\$51.57	29
20	4230	1725	1/4	25	8	7C518	54.63	30
20	4230/2800	1725/1140	1/4	25	8	7F344	64.21	32
24	4520	1725	1/4	27	8	7C451	58.71	34
24	4520/2960	1725/1140	1/4	27	8	7C354	68.29	36
HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED, SPLIT PHASE MOTORS								
20"	4230	1725	1/4	25"	8'	7C356	\$58.19	31
20	4230/2800	1725/1140	1/4	25	8	7F355	76.02	33
24	4520	1725	1/4	27	8	7C358	62.27	35
24	4520/2960	1725/1140	1/4	27	8	7C361	80.10	37
EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED PSC(*) MOTORS								
20"	4030/2940	1100/800	1/4	25"	8'	7C348	\$66.30	32
24	5550/4030	1100/800	1/4	27	8	7C350	70.38	36
ADJUSTABLE SPEED CIRCULATOR, SOLID STATE CONTROL, DRIPPROOF PSC(*) MOTOR								
24"	5750-2000	1500-500	1/2	27"	8'	7F367	\$94.99	38
OSCILLATING, EXTRA-QUIET CIRCULATORS WITH DRIPPROOF PSC(*) MOTORS								
20"	4030/2940	1100/800	1/4	25"	12'	7F369	\$106.00	41
24	5550/4030	1100/800	1/4	27	12	7C838	110.08	45

(*) Permanent split capacitor motors.

1000 to 30,000 WATT PORTABLE & STATIONARY POWER PLANTS STOCKED

Granger's has large stocks of high performance, portable alternator and generator power plants with 1000 to 7000 watts, 115 & 230V AC output for emergency and stand-by service. Stationary-type generators with 5000 to 30,000 watts output are



also stocked. Units start automatically when public power fails, shut off when normal power resumes. The Dayton line is quality-built and available with a variety of features. Large stocks maintained. See Index under Power Plants.

SEE WARRANTY INFORMATION ON PAGE 684

ADJUSTABLE and NON-ADJUSTABLE

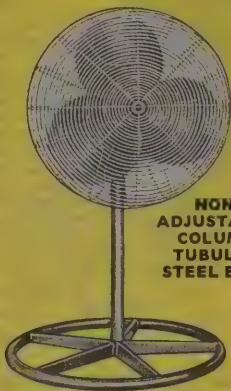
Shipped Unassembled for Maximum Economy. Select from 19 Models

CHOICE OF STAMPED OR TUBULAR STEEL BASE

Illustrated Completely Assembled; Shipped as Separate Components



NON-ADJUSTABLE COLUMN, STAMPED STEEL BASE



NON-ADJUSTABLE COLUMN, TUBULAR STEEL BASE



ECONOMY ADJUSTABLE COLUMN, STAMPED STEEL BASE



ADJUSTABLE SPEED CIRCULATORS



OSCILLATING CIRCULATORS

\$42.16

18"
No. 7C208

Comply with
OSHA
Requirements

Your low cost on these unassembled circulating fans lets you price them below any competition of equal quality—and still make good profits. Circulators come complete with hardware, ready to assemble in minutes using simple hand tools.

CIRCULATOR FEATURES

ADJUSTABLE PEDESTALS—Adjustable pedestal circulators with shaded pole motors have a steel column with gray enamel finish and 14½" diameter steel base with protective rubber ring. All other adjustable pedestal circulators have a steel column with chrome plated top section and gray enameled bottom section, and are available with either a 24" diameter stamped steel base with protective rubber ring, or a tubular steel base—30" diameter on circulators of 1/4 HP or less, 36" diameter on 1/2 HP circulators; gray enamel finish. See table for height range.

NON-ADJUSTABLE PEDESTALS—27" high column with choice of 24" stamped steel base with protective rubber ring or 30" diameter tubular steel base. Gray enamel finish.

MOTORS—All are Dayton, 115V, 60 Hz with automatic reset thermal protection. Totally enclosed models recommended for dirty or moist environments.

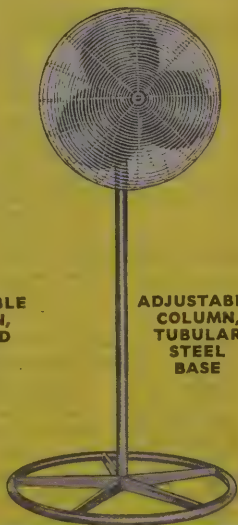
FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel with painted aluminum finish.

CORD SETS—3-conductor with grounding type molded plug and appropriate feed-thru switch, except oscillating models which have pull-chain switch mounted on motor.



ADJUSTABLE COLUMN, STAMPED STEEL BASE



ADJUSTABLE COLUMN, TUBULAR STEEL BASE

FLOOR PEDESTAL AIR CIRCULATORS

CIRCULATORS WITH ADJUSTABLE FLOOR PEDESTALS

Blade Dia.					WITH STAMPED STEEL BASE			WITH TUBULAR STEEL BASE		
	CFM	RPM	HP	Overall Height	Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.
ECONOMY CIRCULATORS WITH DRIPPROOF, SHADED POLE MOTORS										
18"	1580/1060	1500/1000	1/30	62-86"	7C208	\$42.16	32	—	—	—
18	1860/1240	1500/1000	1/15	62-86	7C214	48.18	35	—	—	—
18	1480	1500	1/15	63-86	7C219	47.54	36	—	—	—
18	1480/990	1500/1000	1/15	64-87"	7C221	51.48	37	—	—	—
20	2370	1500	1/15	64-87	7C224	50.60	37	—	—	—
20	2370/1560	1500/1000	1/15	64-87	7C226	54.54	38	—	—	—

HIGH-VOLUME CIRCULATORS WITH DRIPPROOF, SPLIT PHASE MOTORS										
18"	3830	1725	1/4	63-86"	7C256	\$78.57	71	7F500	\$74.12	54
20	4230	1725	1/4	64-87	7C519	81.63	72	7F501	77.18	55
20	4230/2800	1725/1140	1/4	64-87	7F346	91.28	74	7F502	86.83	57
24	4520	1725	1/4	66-89	7C452	85.71	76	7F503	81.26	59
24	4520/2960	1725/1140	1/4	66-89	7C355	95.36	78	7F504	90.91	61
24	6620	1725	1/2	66-89	—	—	—	7F505	95.46	65

HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED, SPLIT PHASE MOTORS										
20"	4230	1725	1/4	64-87"	7C357	\$85.19	73	7F506	\$80.74	56
20	4230/2800	1725/1140	1/4	64-87	7F357	103.09	75	7F507	98.64	58
24	4520	1725	1/4	66-89	7C360	89.27	77	7F508	84.82	60
24	4520/2960	1725/1140	1/4	66-89	7C362	107.17	79	7F509	102.72	62

EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED PSC(+) MOTORS										
20"	4030/2940	1100/800	1/4	64-87"	7C349	\$93.37	74	7F510	\$88.92	57
24	5550/4030	1100/800	1/4	66-89	7C353	97.45	78	7F511	93.00	61
30	8650/6250	1100/800	1/2	66-89	—	—	—	7F512	117.93	70

OSCILLATING, EXTRA-QUIET CIRCULATORS WITH DRIPPROOF PSC(+) MOTORS										
20"	4030/2940	1100/800	1/4	64-87"	7F371	\$132.55	83	7F513	\$128.10	66
24	5550/4030	1100/800	1/4	66-89	7C839	136.63	87	7F514	132.18	70

CIRCULATORS WITH NON-ADJUSTABLE FLOOR PEDESTALS

Blade Dia.					WITH STAMPED STEEL BASE			WITH TUBULAR STEEL BASE		
	CFM	RPM	HP	Overall Height	Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.
ECONOMY CIRCULATORS WITH DRIPPROOF, SHADED POLE MOTORS										
18"	1580/1060	1500/1000	1/30	42"	7F374	\$54.01	52	7F515	\$49.56	35
16	1860/1240	1500/1000	1/15	42	7F377	60.03	55	7F516	55.58	38
18	1480	1500	1/15	43	7F380	59.39	56	7F517	54.94	39
18	1480/990	1500/1000	1/15	43	7F383	63.33	57	7F518	58.88	40
20	2370	1500	1/15	44	7F332	62.45	57	7F519	58.00	40
20	2370/1560	1500/1000	1/15	44	7F335	66.39	58	7F520	61.94	41

HIGH-VOLUME CIRCULATORS WITH DRIPPROOF, SPLIT PHASE MOTORS										
18"	3830	1725	1/4	43"	7F338	\$72.17	64	7F521	\$67.72	47
20	4230	1725	1/4	44	7F341	75.23	65	7F522	70.78	48
20	4230/2800	1725/1140	1/4	44	7F345	84.81	67	7F523	65.78	50
24	4520	1725	1/4	46	7F343	79.31	69	7F524	74.86	52
24	4520/2960	1725/1140	1/4	46	7F348	88.89	71	7F525	84.44	54
24	6620	1725	1/2	46	7F350	89.06	85	7F526	84.61	68

HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED, SPLIT PHASE MOTORS										
20"	4230	1725	1/4	44"	7F353	\$75.23	66	7F527	\$74.34	49
20	4230/2800	1725/1140	1/4	44	7F356	96.62	68	7F528	92.17	51
24	4520	1725	1/4	46	7F354	79.31	70	7F529	78.42	53
24	4520/2960	1725/1140	1/4	46	7F359	100.70	72	7F530	96.25	55

EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED PSC(+) MOTORS										
20"	4030/2940	1100/800	1/4	44"	7F361	\$86.90	67	7F531	\$82.45	50
24	5550/4030	1100/800	1/4	46	7F363	90.98	71	7F532	86.53	54
30	8650/6250	1100/800	1/2	49	7F364	111.46	86	7F533	107.01	69

ADJUSTABLE-SPEED CIRCULATOR WITH SOLID STATE CONTROL, DRIPPROOF PSC(+) MOTOR										
24"	5750/2000	1500-500	1/2	46"	7F368	\$115.59	73	7F534	\$111.14	56

OSCILLATING, EXTRA-QUIET CIRCULATORS WITH DRIPPROOF PSC(+) MOTORS										
20"	4030/2940	1100/800	1/4	44"	7F370	\$126.60	76	7F535	\$122.15	59
24	5550/4030	1100/800	1/4	46	7F373	130.68	80	7F536	126.23	63

*) Permanent split capacitor motors.

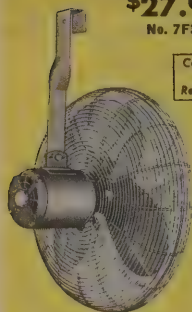
SUSPENSION-MOUNT AIR CIRCULATORS

Shipped Unassembled for Maximum Economy. Select from 19 Models

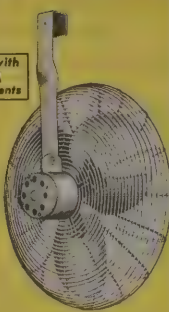
\$27.94

No. 7F376

Comply with
OSHA
Requirements



SPLIT-PHASE & PSC TYPES



SHADED POLE TYPES

Your low cost on these unassembled circulating fans lets you price them below any competition of equal quality—and still make good profits. Circulators come complete with hardware, ready to assemble in minutes using hand tools.

CIRCULATOR FEATURES

SUSPENSION BRACKET—Suspends fan from joists, girders, etc. Heavy gauge bracket is 15" long with 1 1/8" wide hook. Allows fan head to pivot up or down. Gray enamel finish.

MOTORS—All are Dayton, 115V, 60 Hz with automatic reset thermal protection. Totally enclosed models recommended for dirty or moist environments.

FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel with painted aluminum finish.

CORD SETS—3-conductor with grounding type molded plug and appropriate feed-thru switch, except oscillating models which have pull-chain switch mounted on motor.

**Illustrated Completely Assembled;
Shipped as Separate Components**

Blade Dia.	CFM	RPM	HP	Overall	Cord Set Length	Stock No.	Each	Shpg. Wt.
ECONOMY CIRCULATORS WITH DRIPPROOF, SHADED POLE MOTORS								
16"	1580/1060	1500/1000	1/30	28"	9'	7F376	\$27.94	13
16	1860/1240	1500/1000	1/15	28	9	7F379	33.96	16
18	1480	1500	1/15	29	8	7F382	33.32	17
18	1480/990	1500/1000	1/15	29	9	7F331	37.26	18
20	2370	1500	1/15	30	8	7F334	36.38	18
20	2370/1560	1500/1000	1/15	30	9	7F337	40.32	19

HIGH-VOLUME CIRCULATORS WITH DRIPPROOF, SPLIT PHASE MOTORS								
18"	3830	1725	1/4	29"	12'	7F340	\$46.55	25
20	4230	1725	1/4	30	12	7F342	49.61	26
20	4230/2800	1725/1140	1/4	30	12	7F347	59.26	28
24	4520	1725	1/4	32	12	7F384	53.69	30
24	4520/2960	1725/1140	1/4	32	12	7F349	63.34	32
24	6620	1725	1/2	32	12	7F352	63.44	46

HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED, SPLIT PHASE MOTORS								
20"	4230	1725	1/4	30"	12'	7C626	\$53.17	27
20	4230/2800	1725/1140	1/4	30	12	7F358	71.07	29
24	4520	1725	1/4	32	12	7C627	57.25	31
24	4520/2960	1725/1140	1/4	32	12	7F360	75.15	33

EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED PSC(*) MOTORS								
20"	4030/2940	1100/800	1/4	30"	12'	7C628	\$61.35	28
24	5550/4030	1100/800	1/4	32	12	7C629	65.43	32
30	8650/6250	1100/800	1/2	35	12	7F366	85.91	47

(*) Permanent split capacitor motors.

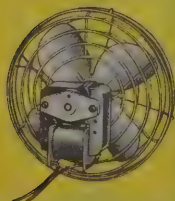
4, 6 & 8" GUARDED COOLING FANS

200, 450 and 500 CFM. With 3000 RPM Shaded Pole Motors

\$9.49

4" Fan
200 CFM

Rugged fans have many spot cooling and exhausting applications—equipment cooling, etc. Close mesh wire guard has zinc lustron finish. 3000 RPM, 115V, 60 Hz shaded pole motor with 6" long leads. Motor has two 6-32 mounting studs, 1 1/8" OC, 1/2" below shaft center. Dayton brand.



CFM	Blade Dia.	Wings	Guard Dia.	Motor HP	Stock No.	Retail	Each	Shpg. Wt.
200	4"	10	5"	1/150	4C116	\$15.85	\$9.49	3
450	6	4	7	1/70	4C344	19.45	11.66	3
500	8	6	9	1/40	4C345	24.75	14.82	4

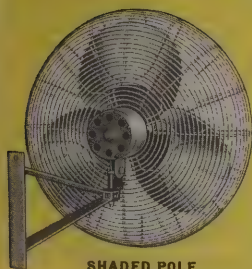
AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

WALL/CEILING-MOUNT AIR CIRCULATORS

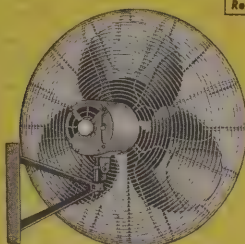
Shipped Unassembled for Maximum Economy. Select from 21 Models

\$31.55 No. 7F375

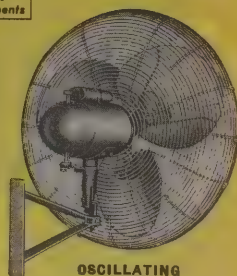
Comply with
OSHA
Requirements



**SHADED POLE
TYPES
WALL/CEILING MOUNTING**



**SPLIT PHASE
& PSC TYPES
WALL/CEILING MOUNTING**



**OSCILLATING
TYPES
WALL MOUNTING ONLY**

Your low cost on these unassembled circulating fans lets you price them below any competition of equal quality—and still make good profits. Circulators come complete with hardware, ready to assemble in minutes using hand tools.

CIRCULATOR FEATURES

WALL/CEILING BRACKET—Heavy-duty, steel wire bracket extends 12½" from 9½ x 2" steel mounting plate with ⅝" diameter mounting holes. Adjustable pivot allows air stream to be directed where needed. Gray finish.

MOTORS—All are Dayton, 115V, 60 Hz with automatic reset thermal protection. Totally en-

closed models recommended for dirty or moist environments.

FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel with painted aluminum finish.

CORD SETS—3-conductor with grounding type molded plug and appropriate feed-thru switch, except oscillating models which have pull-chain switch mounted on motor.

**Illustrated Completely Assembled;
Shipped as Separate Components**

Blade Dia.	CFM	RPM	HP	Cord Set Length	Stock No.	Each	Shpg. Wt.
ECONOMY CIRCULATORS WITH DRIPPROOF, SHADED POLE MOTORS							
16"	1580/1060	1500/1000	1/30	9'	7F375	\$31.55	14
16	1860/1240	1500/1000	1/15	9	7F378	37.57	17
18	1480	1500	1/15	8	7F381	36.93	18
18	1480/990	1500/1000	1/15	9	7F330	40.87	19
20	2370	1500	1/15	8	7F333	39.99	19
20	2370/1560	1500/1000	1/15	9	7F336	43.93	20
HIGH-VOLUME CIRCULATORS WITH DRIPPROOF, SPLIT PHASE MOTORS							
18"	3830	1725	1/4	12'	7F339	\$50.16	26
20	4230	1725	1/4	12	7C077	53.22	27
20	4230/2800	1725/1140	1/4	12	7C078	62.87	29
24	4520	1725	1/4	12	7C079	57.30	31
24	4520/2960	1725/1140	1/4	12	7C080	66.95	33
24	6620	1725	1/2	12	7F351	67.05	47
HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED, SPLIT PHASE MOTORS							
20"	4230	1725	1/4	12'	7C081	\$56.78	28
20	4230/2800	1725/1140	1/4	12	7C082	74.68	30
24	4520	1725	1/4	12	7C083	60.86	32
24	4520/2960	1725/1140	1/4	12	7C084	78.76	34

EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH TOTALLY ENCLOSED PSC(*) MOTORS							
20"	4030/2940	1100/800	1/4	12'	7F362	\$64.96	29
24	5550/4030	1100/800	1/4	12	7F385	69.04	33
30	8650/6250	1100/800	1/2	12	7F365	89.52	48

OSCILLATING, EXTRA-QUIET CIRCULATORS WITH DRIPPROOF PSC (*) MOTORS							
20" †	4030/2940	1100/800	1/4	12'	7F372	\$104.14	38
	5550/4030	1100/800	1/4	12	7C254	108.22	42

(*) Permanent split capacitor motors. (†) Oscillating types must be wall mounted only; all other types can be wall or ceiling mounted.

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

SEE WARRANTY INFORMATION ON PAGE 684

12" 3-SPEED MULTI-PURPOSE AIR CIRCULATOR



12" Diameter Blue Plastic Blade. Very Quiet
3-Speeds. Pushbutton Control. Carrying Handle
Use on Table, Counter, Wall or Floor. UL Listed

Dayton

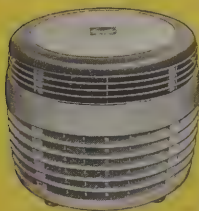
\$25.06

Complies with
OSHA
Requirements

Quiet, versatile and portable. This rugged, attractively styled, 3-speed air circulator has a steel pivot-type stand/bracket, with rubber feet, which allows placement on floor, counter, table or wall. Convenient locking knobs enable air stream to be directed where needed. Four pushbuttons control fan operation. Light weight and large carrying handle afford easy mobility. Delivers 1088/866/700 CFM. Motor is shaded pole, 1495/1200/950 RPM, 115V, 60 Hz, 62 watts. Fan is constructed of high-impact white and blue plastic. 3-wing blue plastic blade. Grilles meet OSHA requirements. 6 ft. 18/3 grounded line cord with molded plug. Cord storage brackets on fan. UL listed. 18 $\frac{1}{2}$ " H x 18" W x 8" D. Shpg. wt. 9 lbs. No. 4C527. Circulator. Ret. \$37.60. Ea., \$25.06

QUIET 12" HASOCK-TYPE FAN

Draft-Free 360° Air Circulation. Deluxe Compact Styling



Dayton

\$45.55

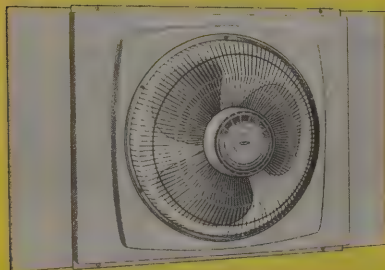
Complies with
OSHA
Requirements

Quietly circulates air at floor level in all directions. 12" dia., 3-wing plastic fan blade discharges into a baffle cone giving even 360° air distribution. Draft-free; will not scatter papers, etc. 3-speed motor delivers 3180/2510/2070 CFM. Motor is 1360/1075/885 RPM, 115V, 60 Hz, permanently lubricated, permanent split capacitor type; uses 50% less electrical power than many comparable units. Durable 2-tone beige and brown housing allows fan to be used as a table or seat. Meets OSHA requirements. 6 foot, 18/3 grounded line cord with molded plug. UL listed. Shpg. wt. 18 lbs.

No. 4C509. Hassock Fan. Ret. \$68.30. Each, \$45.55

16" 3-SPEED REVERSIBLE WINDOW FAN

Electrically Reversible Intake and Exhaust. Fits Most Windows. Attractively Styled



Dayton

\$43.46

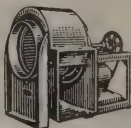
Complies with
OSHA
Requirements

Quietly exhausts stale air or brings in fresh air at turn of a switch. Features 16" diameter, 3-wing, blue plastic blade driven by quiet, electrically reversible, permanent split capacitor motor. Delivers 2790/2300/1410 CFM at 1425/1180/885 RPM. 115V, 60 Hz, 90 watts. Convenient rotary switch for 3 speeds intake and 3 speeds exhaust. Easy-mount, positive lock panels allow installation in windows 26 $\frac{1}{2}$ " to 37 $\frac{1}{2}$ " wide x 22" high; can mount on outside of window trim for shallow sill applications. Installation template supplied. White plastic housing with chrome plated steel guards, which meet OSHA requirements, on both sides. 6 ft. 18/3 line cord with molded plug. UL listed. 22 H x 26 $\frac{1}{2}$ W x 10" D. Shpg. wt. 20 lbs.

No. 4C528. Ret. \$65.20. Ea., \$43.46

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

OSCILLATING and PIVOT STAND AIR CIRCULATORS

9, 12 and 16" Diameter Unbreakable Lexan Blades. UL Listed. Attractive styling
Permanent Split Capacitor Motors Use 50% Less Electrical Power than Many Comparable Units

Dayton

Comply with
OSHA
Requirements

OSCILLATING CIRCULATORS — 9" model is 2-speed for table mounting, 12 and 16" models

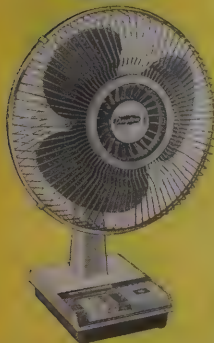
are 3-speed, for table or wall mounting. Units allow 90° oscillation or straight blow. Fan head also pivots up and down to reach hard-to-cool areas.

PIVOT STAND CIRCULATORS — 9" model is 2-speed, 12 and 16" models are 3-speed. Fan head can be pivoted for vertical air flow adjustment.

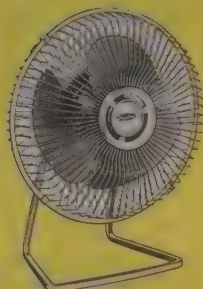
Whisper-quiet. Ideal for homes, offices, stores, dormitories, etc. All units feature blue unbreakable Lexan, 3-wing blade. Close mesh steel guard with satin chrome finish meets OSHA requirements. White plastic housing. Oscillating models have white plastic base, pivot stands are satin chrome finished steel. 6 ft. 18/3 grounded line cord with molded plug. Convenient selector switches. 115V, 60 Hz. UL listed. 9" oscillating units shipped completely assembled. 12 and 16" oscillating units shipped with blade and guard unassembled; assemble in minutes without tools. All pivot stand models shipped assembled.

\$13.63

No. 4C524



OSCILLATING MODELS



PIVOT STAND MODELS

Blade Dia.	CFM Air Delivery	Motor RPM	Watts	Motor Type	Dimensions H W D	Stock No.	Retail	Each	Shpg. Wt.
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9, 12 and 16" OSCILLATING AIR CIRCULATORS

9"	830/650	2500/2000	42	Shaded Pole	17" 11½" 8½"	4C523	\$27.20	\$18.15	8
12	1660/1310/1080	1400/1100/910	44	PSC(*)	20½" 14½" 11½"	4C507	43.30	28.85	10
16	3190/2520/2075	1320/1040/850	81	PSC(*)	24½" 18½" 12½"	4C508	62.30	41.56	14

9, 12 and 16" PIVOT STAND AIR CIRCULATORS

9"	1495/1125	2150/1620	60	Shaded Pole	14½" 11½" 8"	4C524	\$20.40	\$13.63	6
12	2000/1630/1380	1420/1200/980	62	Shaded Pole	16½" 14½" 9½"	4C525	31.90	21.28	8
16	3200/2680/2100	1300/1100/860	130	PSC(*)	21" 18" 11"	4C526	48.60	32.40	10

(*) PSC: Permanent split capacitor.

18 and 20" 2-SPEED PIVOT STAND CIRCULATORS

1600/1100 & 2370/1560 CFM. Chromed Guards Comply with OSHA Requirements

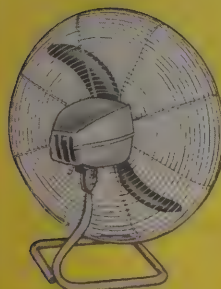
Dayton

Comply with
OSHA
Requirements

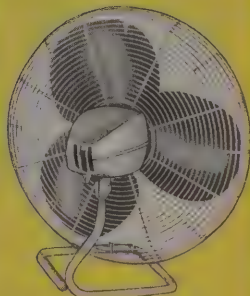
\$40.93

No. 7F659

Economical air circulators with premium features such as 2-speed motors, chromed close mesh guards and adjustable pivot stands. Highly suited for home, office, school dormitory, etc. Guards comply with OSHA requirements. Pivot stand allows wide vertical adjustment of air flow. 20" unit has 3-wing, blue anodized aluminum blade, 18" unit has 2-wing black plastic blade. Dayton, 115V, 60 Hz, shaded pole motors with automatic reset thermal protection enclosed in molded gray plastic housing. 12 ft. 18/3 cord set. 2-speed switch mounted on motor housing.



18", No. 7F659

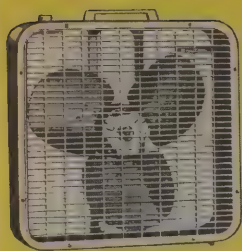


20", No. 7F660

Blade Dia.	Blade Wings	CFM	RPM	HP	H	W	D	Stock No.	Retail	Each	Shpg. Wt.
18"	2	1600/1100	1500/1000	1/30	23"	20"	16½"	7F659	\$68.35	\$40.93	16
20"	3	2370/1560	1500/1000	1/15	24	22	16½"	7F660	89.90	53.82	21

SEE WARRANTY INFORMATION ON PAGE 684

20" GENERAL PURPOSE DELUXE & ECONOMY



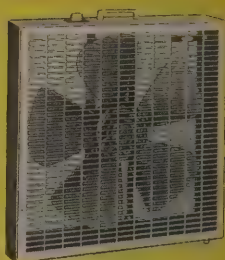
Dayton

4C418

A \$27.63

DELUXE 20" CIRCULATOR

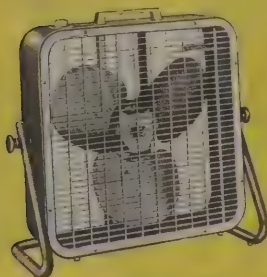
Comply with
OSHA
Requirements



4C510

\$22.20 B

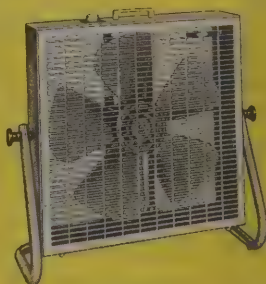
20" ECONOMY CIRCULATOR



7C681

C \$34.72

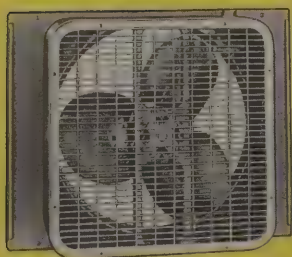
20" DELUXE WITH PIVOT STAND



7F571

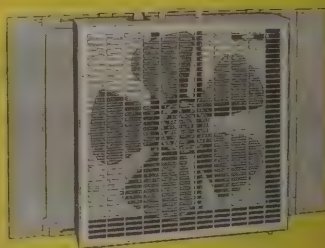
D \$29.29

20" ECONOMY WITH PIVOT STAND



E \$47.15 **20" ELECTRICALLY REVERSIBLE**

4C421



7F599

F \$30.17 **20" ECONOMY WINDOW FAN**

AIR CIRCULATOR SPECIFICATIONS

Type	CFM Air Delivery	Motor RPM	Motor HP	Housing Dimensions		
				H	W	D
Deluxe 20" Circulators	3420/3000/2340	1025/900/700	1/12	24	22	6 1/2
Economy 20" Circulators	2900/2550/2000	1050/920/720	1/15	24	22	6 1/2

CIRCULATOR ONLY, LESS MOUNTING

Fig.	Stock No.	Each	Shpg. Wt.
A	4C418	\$27.63	19
B	4C510	22.20	16

AIR CIRCULATORS WITH CHOICE OF MOUNTINGS

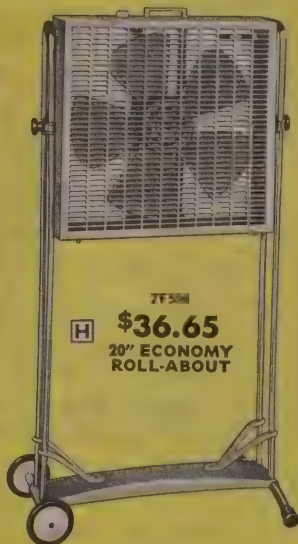
Choice of Circulator Mountings. Safety Guards Meet OSHA Requirements. UL Listed For Home, Store, Office, Shop, Etc. Quiet Performance, Attractive Slim-Line Styling



7C680

G

\$42.08
20" DELUXE
ROLL-ABOUT



7F599

H

\$36.65
20" ECONOMY
ROLL-ABOUT

GRAINGER'S CAN SUPPLY ALL OF YOUR FAN & AIR CIRCULATOR REQUIREMENTS

See Index under Fans for Complete Listings. Large Stocks Located Near You

High-quality, multi-speed air circulators for home, office, store, etc. Engineered to provide quiet operation and a high degree of reliability. All feature high-impact plastic front and rear safety guards which meet OSHA requirements. Guards can be removed for cleaning.

Circulators are available in deluxe or economy versions, each with selection of basic circulator only, pivot stand model, roll-about model or window fan model. Deluxe circulators have 3-wing aluminum blades, economy circulators have 5-wing plastic blades. Cabinets and mountings are constructed of heavy-gauge steel, finished in bonderized harvest gold enamel. Convenient carrying handle on all except No. 4C421 electrically reversible window fan.

All units have rotary speed selector switch conveniently located on top of housing. Line cords are grounded type with molded plug; 10 ft. 18/3 on No. 4C421, 8 ft. 16/3 on all others. For 115V, 60 Hz. UL listed.

BASIC CIRCULATORS—Units (Figs. A & B)

available less mountings for varied usage. Non-marring feet protect floor, table, etc.

PIVOT STAND CIRCULATORS—Units available with chrome plated adjustable pivot stand (Figs. C and D) which allows 360° fan head adjustment with locking knobs. Non-marring feet; use on desk, table or floor.

ROLL-ABOUT CIRCULATORS—Units available with versatile mobile stand (Figs. G and H) which rolls easily from room to room on 4" dia. rubber-tire wheels. Vertical adjustment to 58" H; fan head can be rotated 360°. Locking knobs. Chrome plated vertical supports.

WINDOW FANS—20" units with adjustable window mounting panels. Available electrically reversible (Fig. E) or mechanically reversible (Figs. E and F). Rotary switch for intake-exhaust selection on electrically reversible unit. Mechanical reversing (Nos. 7F600 & 7F599) easily done by reversing fan housing on window panel hooks. For 27 to 35¼" W windows, except No. 4C421 which fits 29¼ to 37¼" W windows.

PIVOT STAND CIRCULATORS			ROLL-ABOUT CIRCULATORS			ELECTRICALLY REVERSIBLE WINDOW FANS			MECHANICALLY REVERSIBLE WINDOW FANS		
Fig.	Stock No.	Each	Fig.	Stock No.	Each	Fig.	Stock No.	Each	Fig.	Stock No.	Each
C	7C681	\$34.72	G	7C680	\$42.08	E	4C421	\$47.15	—	7F600	\$35.60
D	7F597	29.29	H	7F598	36.65	—	—	—	F	7F599	30.17

SEE WARRANTY INFORMATION ON PAGE 684

CIRCULATOR HEAD FEATURES

Head and Mounting Shipped Separately

Circulator head comes completely assembled, however it must be fastened to mounting (pedestal or bracket) using hardware supplied. Simple hand tools required. UL listed.

GUARDS—Comply with OSHA requirements. Two-piece, close mesh, sturdy steel, chrome plated for attractive appearance.

MOTORS—115V, 60 Hz with automatic reset thermal protection. Totally enclosed models recommended for dirty or moist environments.

FAN BLADES—3-wing, bright finish aluminum with steel spider and hub.

CORD SETS—10 foot, 16/3 with grounding type molded plug.

MOUNTING FEATURES

COUNTER PEDESTAL—10½" high chrome column on 11" diameter chrome base with rubber ring to protect counter, desk, etc.

NON-ADJUSTABLE FLOOR PEDESTAL—27" high column on 24" diameter base with protective rubber ring. Gray enamel finish.

ADJUSTABLE FLOOR PEDESTAL—Steel column with 3½ to 6 ft. height adjustment. 1/4 HP circulators supplied with 24" diameter stamped steel base with protective rubber ring. 1/2 HP circulators supplied with 36" diameter tubular steel base. Gray enamel finish.

WALL/CEILING BRACKET—Heavy-duty, steel wire bracket extends 12½" from 9½ x 2" steel mounting plate with ⅝" diameter mounting holes. Adjustable pivot. Gray finish.

SUSPENSION BRACKET—Sturdy 15" long bracket with 1⅞" wide hook. Gray finish.

ALL CIRCULATORS UL LISTED

\$81.31

7F389



CIRCULATOR
WITH COUNTER
PEDESTAL



CIRCULATOR
WITH NON-
ADJUSTABLE
FLOOR PEDESTAL

CIRCULATOR SPECIFICATIONS

CIRCULATOR HEAD LESS MOUNTING

CIRCULATORS WITH COUNTER PEDESTAL

Blade Dia.	CFM	RPM	Motor HP	Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.
20"	4230	1725	1/4	4C456	\$54.21	22	7F388	\$62.16	27
24	4520	1725	1/4	3C217	58.41	27	7F393	66.36	32
24	6620	1725	1/2	4C021	68.08	40	—	—	—

HIGH-VOLUME CIRCULATORS WITH

20"	4230	1725	1/4	4C458	\$58.45	25	7F493	\$66.40	30
24	4520	1725	1/4	3C218	62.73	30	7F411	70.68	35

EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH

24"	5550/4030	1100/800	1/4	4C154	\$69.05	30	7F400	\$77.00	35
30	8650/6250	1100/800	1/2	3C219	95.49	45	—	—	—

OSCILLATING, EXTRA-QUIET, HIGH-VOLUME CIRCULATORS WITH

24"	5550/4030	1100/800	1/4	3C215	\$106.63	41	7F407	\$114.58	46
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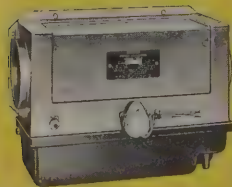
MEDIA-WHEEL BY-PASS HUMIDIFIER

24V Motor-Driven Wheel. 15.5 Gal./Day Cap. Auto-Flo Model 200-P

\$49.73

Medium capacity by-pass humidifier serves homes up to 1500 sq. ft. Installs on warm air plenum, with either left or right hand take-off. Urethane foam media wheel is driven by quiet 24V motor. Media wheel design offers maximum surface area for efficient evaporation. Media wheel is easily accessible through large removable panel for cleaning or replacement. Stainless steel case is corrosion resistant, easy to clean. Water float valve is polyethylene. Water reservoir is constructed of molded high-temperature plastic, removable for cleaning. Comes with 115/24V transformer, saddle valve and installation hardware. Transformer wired for control by furnace fan switch. Humidistat required; see Index under Humidistat. 11 H x 16 W x 9" D. Shpg. wt. 10 lbs.

No. 2E463. Humidifier. Retail \$99.45. Each.....\$49.73



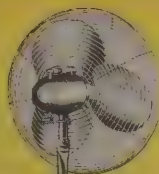
WITH CHOICE OF MOUNTINGS

Dayton

Comply with
OSHA
Requirements



CIRCULATOR
WITH SUSPENSION
BRACKET

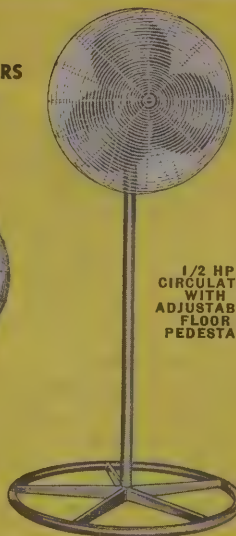


1/4 HP CIRCULATOR
WITH ADJUSTABLE
FLOOR PEDESTAL

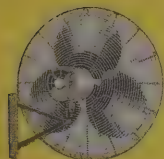
ALL
CIRCULATORS
UL LISTED



CIRCULATOR
WITH COUNTER
PEDESTAL



1/2 HP
CIRCULATOR
WITH
ADJUSTABLE
FLOOR
PEDESTAL



CIRCULATOR
WITH WALL/
CEILING BRACKET



CIRCULATORS WITH NON-ADJUSTABLE FLOOR PEDESTAL			CIRCULATORS WITH ADJUSTABLE FLOOR PEDESTAL			CIRCULATORS WITH WALL/CEILING BRACKET			CIRCULATORS WITH SUSPENSION BRACKET		
Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.	Stock No.	Each	Shpg. Wt.
SINGLE SPEED, DRIPPROOF, SPLIT PHASE MOTORS											
7F389	\$ 81.31	62	7F390	\$ 87.26	69	7F391	\$58.85	24	7F392	\$55.24	23
7F394	85.51	67	7F395	91.46	74	7F396	63.05	29	7F397	59.44	28
7C385	95.18	80	7F498	101.13	75	7F398	72.72	42	7F399	69.11	41
SINGLE SPEED, TOTALLY ENCLOSED SPLIT PHASE MOTORS											
7F494	\$ 85.55	65	7F495	\$ 91.50	72	7F496	\$63.09	27	7F497	\$59.48	26
7F412	89.83	70	7F413	95.78	77	7F414	67.37	32	7F415	63.76	31
TWO SPEED, TOTALLY ENCLOSED, PERMANENT SPLIT CAPACITOR MOTORS											
7C258	\$ 96.15	70	7C259	\$102.10	77	7F401	\$73.69	32	7F402	\$70.08	31
7F403	122.59	85	7F499	128.54	80	7F404	100.13	47	7F405	96.52	46
TWO SPEED, DRIPPROOF, PERMANENT SPLIT CAPACITOR MOTORS											
7F408	\$133.73	81	7F409	\$139.68	88	7F410	\$111.27	43	—	—	—

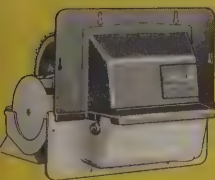
AIR-DRIVEN MEDIA-WHEEL HUMIDIFIER

No Electrical Connections. 6 Gal./Day Cap. Auto-Flo Model 450

\$29.14

Efficient, economical humidifier installs quickly on vertical warm air plenum or duct and delivers sufficient capacity for smaller homes. Media wheel is silently rotated through reduction gears by a self-contained air turbine which is driven by the warm air flow in the furnace plenum. Urethane-foam media pad has large evaporative area and is easily replaced. Unit is constructed of high strength polymer plastic throughout for ease of cleaning. Water valve float is polyethylene. Blue and beige finish. Supplied with mounting hardware, 10 ft. plastic water line, saddle valve, and media pad. 10½ H x 12½ W x 3½ D to plenum surface (protrudes 7" into plenum). Shpg. wt. 6 lbs.

No. 2E284. Humidifier. Retail \$58.28. Each.....**\$29.14**



SEE WARRANTY INFORMATION ON PAGE 684

USING CEILING FANS FOR HEAT RECLAMATION

Reduce Heating Costs up to 30% in Commercial and Industrial Buildings

Heat stratification exists, in varying degrees, in all structures with ceiling heights in excess of 12 feet. It results from warm air rising toward and being trapped at the ceiling. This warm air can be as much as 10° to 25°F warmer than the air at floor level and will eventually be lost due to heat losses through the roof and upper wall construction.

Emerson 52" ceiling fans, Grainger's stock No. 4C336 listed on facing page, can be used to recirculate the hot stratified air down into the working area thus developing a more uniform temperature throughout the structure. Reclaiming hot stratified air will significantly reduce both the load on the heating system and annual heating costs. In addition, the constant recirculation of warm air throughout the facility will eliminate "cold spots" which are one of the major causes of employee complaints and loss of production efficiency. Use the following procedure to estimate the dollar savings which can be achieved in buildings of various sizes and in different areas of the country by installing four or more 52" ceiling fans. The dollar savings are approximate and may differ due to varying environmental conditions.

1. Determine which heating zone your facility is located in by referring to the heat zone map.
2. Refer to table for the estimated annual dollar savings for buildings of various sizes in the six heat zones of the U.S. The dollar savings are based on an existing 10°F temperature differential from floor to ceiling in the building. Example: A 25,000 sq. ft. structure in Heat Zone 3, with a temperature differential of 10°F and a gas fuel rate of 20¢/therm, would have an estimated savings of \$812 per year with a properly installed heat reclamation system.
3. The number of 52" fans (No. 4C336) necessary to de-stratify the facility and achieve the estimated savings is also indicated in the

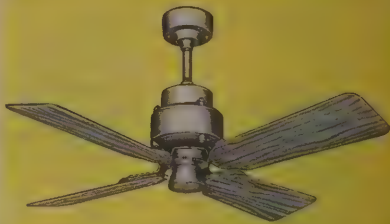
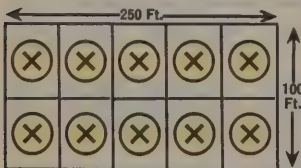


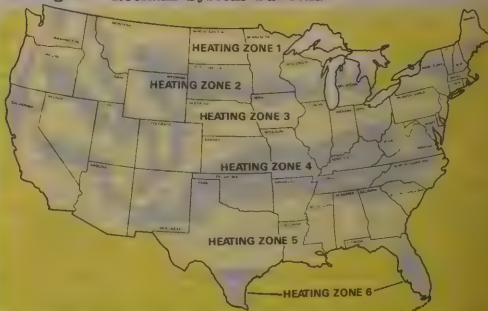
chart immediately below the structure size. Example: The 25,000 sq. ft. structure in step 2 would require ten 52" fans (No. 4C336).

4. Determine the correct placement of the 10 fans determined in step 3 by dividing the plant into 10 equal blocks as depicted in the illustration. A fan should then be placed as near as physically possible to the center of these blocked areas. The fan placement layout shown is a theoretical layout which in practice will probably be affected by variables in the facility.

For a more detailed savings and cost analysis, including a suggested electrical-mechanical layout of a heat reclamation system for your facility, contact your Grainger salesman or write to W.W. Grainger, Inc., Dept. A32, 5959 W. Howard St., Chicago, IL 60648 for the Emerson Heat Reclaim System bulletin.



EXAMPLE OF FAN LAYOUT



FUEL COST SAVINGS PER YEAR PER 10°F TEMPERATURE GRADIENT (*)

Heat Zone	BUILDING AREA AND NUMBER OF 52" FANS REQUIRED					
	10,000 Sq. Ft. 4 Fans	25,000 Sq. Ft. 10 Fans	50,000 Sq. Ft. 20 Fans	100,000 Sq. Ft. 40 Fans	250,000 Sq. Ft. 100 Fans	500,000 Sq. Ft. 200 Fans
1	\$500	\$1,000	\$1,800	\$3,300	\$7,250	\$14,000
2	450	875	1,600	2,950	6,500	12,500
3	410	812	1,450	2,700	5,875	11,250
4	355	700	1,250	2,350	5,000	9,750
5	240	460	825	1,575	3,400	6,625
6	85	165	295	562	1,212	2,350

(*) Dollar savings based on the following parameters: (A) Structure has a metal roof and walls. (B) 2" insulation in the walls. (C) 4" insulation in the ceiling. (D) 1% of the total wall area of the structure is shipping doors and windows. (E) Heating fuel is natural gas and rate is 20¢/therm (based upon 50% cycling efficiency). If the structure differs significantly from these parameters, refer to the more detailed calculations outlined in the Emerson bulletin referred to in text.

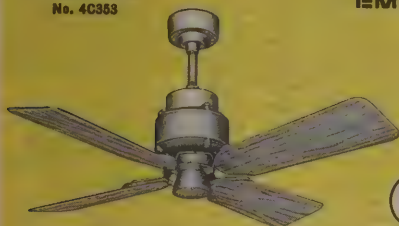
PRODUCT LITERATURE AVAILABLE FROM GRAINGER ON REQUEST

Information on most major lines in Grainger's MotorBook (especially motors, blowers, fans, pumps, air compressors, etc.) is available for the asking. Let our salespeople know what you need. We are always pleased to provide product information that will help you promote sales.

36 and 52" 2-SPEED EXTRA-QUIET CEILING FANS

7000/5209 & 4000/2848 CFM. Low RPM. Will Not Cause TV or Radio Interference
Available with or without Globe-Style Light Fixture. Pull-Chain Switch

\$104.55
No. 4C353

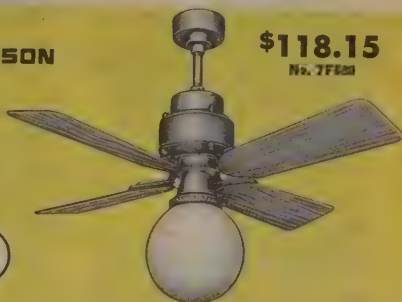


EMERSON



Nos. 4C353 and 4C336 CEILING FANS

\$118.15
No. 7F689



Nos. 7F689 and 7F690 FANS, WITH LIGHT

Extremely quiet, slow speed, high-volume ceiling fans provide positive, gentle air circulation without annoying drafts. Widely used for years to provide cool breezes in stores, offices, churches, homes, porches, etc. Can also cut heating fuel costs by minimizing temperature stratification in high-bay buildings. Will not cause TV or radio interference. 52" fan delivers 7000/5209 CFM at 215/160 RPM, 140/90 watts; 36" fan delivers 4000/2848 CFM at 330/235 RPM, 80/50 watts. Lifetime lubricated, 120V, 60 Hz capacitor motor. Fan blade wings have simulated wood

grain. Controlled with 2-speed, pull-chain switch. Fans with light fixture include 8" diameter opal glass globe and are UL listed for up to 100 watt bulb (not included). Light operates independently of fan. Fixture packed separately; includes all necessary hardware for mounting on fan. Fan installs on any ceiling—projects only 12 to 13" from ceiling to blade edges. Supplied with ceiling canopy, ceiling hook and insulated hanger eye. Mounting fittings accommodate 2" long 1/2" hanger pipe. Motor housing finished in attractive baked-on bronze enamel.

FANS WITHOUT LIGHT FIXTURE

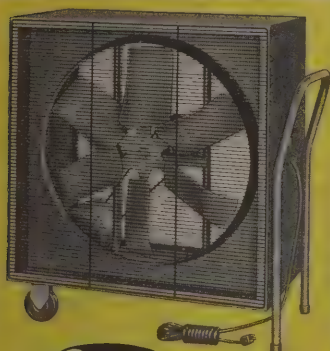
Blade Dia.	Mfr's. Model	Stock No.	Retail	Each	Shpg. Wt.
36"	CF363L	4C353	\$183.03	\$104.55	20
52"	CF523L	4C336	238.33	140.05	27

FANS WITH LIGHT FIXTURE

Blade Dia.	Mfr's. Model	Stock No.	Retail	Each	Shpg. Wt.
36"	CF363LK	7F689	\$205.03	\$118.15	22
52"	CF523LK	7F690	260.33	153.65	29

USE CEILING FANS FOR HEAT RECLAMATION—SEE FACING PAGE

36" 2-SPEED HIGH-VOLUME MOBILE CIRCULATOR



Dayton

10,300/6810 CFM. 1/2 HP 2-Speed Dayton Motor
Front and Rear Guards Meet OSHA Requirements

\$262.55

Complies with
OSHA
Requirements

High-volume, heavy-duty, 2-speed mobile air circulator for the big cooling jobs in factories, warehouses, laundries, garages, etc. Easily rolled to various locations on sturdy, 4" dia., hard rubber casters. 6-wing, balanced steel fan blade delivers 10,300/6810 CFM at low 410/270 RPM for lower noise levels. Matched deep venturi assures high efficiency and directs air flow to desired area. Fan blade is belt driven by Dayton, 1/2 HP, 2-speed, 1725/1140 RPM, 9.3 amp, 115V, 60 Hz, split phase motor. Ball bearing fan blade shaft pillow blocks are self-aligning and pre-lubricated for quietness and long life. Rugged, heavy-duty construction throughout.

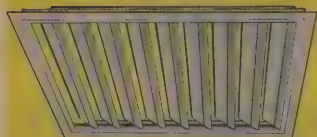
Close mesh front and rear guards meet OSHA requirements. Housing is heavy gauge steel finished in dark grey enamel. Sturdy tubular steel handle also stores cord set and protects High-Off-Low switch conveniently mounted on side of housing. 12 ft. 16/3 SJ grounding type cord set with 3-prong molded plug. Shipped completely assembled, ready for use. 47 3/8" H x 46 1/4" W x 17 3/4" D. Shpg. wt. 155 lbs.

No. 3C187. Circulator. Retail \$438.45. Each.....**\$262.55**

AIR MOVING EQUIPMENT FUNDAMENTALS—see pages 612 and 613 for discussion of the various types of air moving devices, their characteristics and glossary of terminology used throughout the industry and in this book.

CEILING SHUTTERS for 24 to 48" EXHAUST FANS

For Horizontally Mounted Fans. Can Be Motorized Using Optional Shutter Motor



No. 4C226 SHUTTER

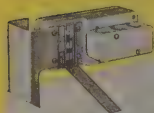
Dayton

\$21.52

24" Unit

Attractive ceiling shutters install flush in ceiling opening below attic exhaust fan. Entire unit is finished in white acrylic enamel to blend with white ceiling finish. Aluminum vanes have felted edges for effective sealing. A tie rod on fan side of shutter assures uniform vane opening when fan is on. Vanes have anti-friction pivot pins for fast, minimum-load opening and closing action. Extruded aluminum shutter frame is 1 3/4" deep overall and has 1 3/4" wide mounting flange with ample 3/16" dia. mounting holes.

OPTIONAL SHUTTER MOTOR—Relieves starting load on fan motor by automatically opening and closing shutter. Assures uniform opening and closing. Motor housing is 6 1/2 H x 3 1/2 W x 2 3/4 D. 6" L leads, ground wire included, plus junction box for easy wiring. 60 Hz. Appropriate motor stock number listed under table below.



OPTIONAL SHUTTER MOTOR

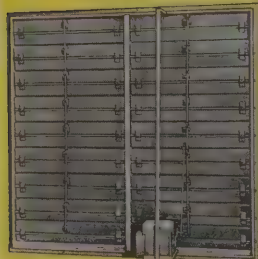
For Fan Dia.	Opening Required	Overall Dimensions	Stock No.	Retail	Each	Shpg. Wt.
24"	24" x 24"	26" x 26"	4C224	\$32.30	\$21.52	8
30	30 x 30	32 x 32	4C225	38.50	25.68	12
36	36 x 36	38 x 38	4C228	47.60	31.72	17
24 or 30	28 x 32	30 x 34	4C226	38.45	25.62	12
30 or 36	32 x 40	34 x 42	4C227	47.50	31.66	16
42	42 x 42	44 x 44	3C242	64.25	42.82	21
48	48 x 48	50 x 50	3C243	81.60	54.40	30

115V SHUTTER MOTOR—For above ceiling shutters. 4 lbs. No. 2C904. Retail \$35.60. Each.....\$23.72

230V SHUTTER MOTOR—For above ceiling shutters. 4 lbs. No. 4C536. Retail \$35.60. Each.....\$23.72

MOTORIZED DAMPERS for 30 to 60" FANS

Functions for either Air Intake or Exhaust System



DOUBLE PANEL DAMPER
FOR 54 and 60" FANS

Dayton

\$112.40

30" Damper

Heavy-duty, extruded aluminum construction. Can be mounted horizontally or vertically. Center-pivot vanes with tie rod linkage assure dependable service. Frame is 2" D with 1 1/4" flange. Ample 3/16" dia. mounting holes. Motor mounting bracket extends 9 3/4" from mounting flange. 30 to 48" units are single panel, 54 and 60" are double panel.

SINGLE PANEL DAMPERS WITH 24V, 60 Hz MOTOR

Have 115, 208-240V/24V Transformer for Single or 3-Phase Circuits

For Fan Dia.	Opening Req. (Sq.)	Overall (Sq.)	Stock No.	Retail	Each	Shpg. Wt.
30"	30"	33"	3C234	\$168.60	\$112.40	35
36	36	39	3C131	195.45	130.29	44
42	42	45	3C235	235.00	156.66	54
48	48	51	3C132	284.70	189.80	61

DOUBLE PANEL DAMPERS WITH 230V, 60 Hz MOTOR

For Single or 3-Phase Circuits

For Fan Dia.	Opening Req. (Sq.)	Overall (Sq.)	Stock No.	Retail	Each	Shpg. Wt.
54"	54"	57"	3C188	\$408.15	\$272.11	90
60	60	63	3C189	459.10	306.06	101

1, 2 & 4-HOUR CYCLE TIME SWITCHES

Provides up to 60 On-Off or Off-On Operations Every Cycle



Dayton

\$19.76

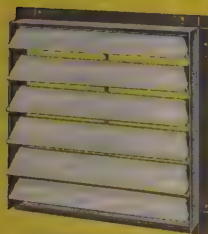
Controls spraying and fogging equipment, coolers, automatic feeders, process equipment, ventilating systems, pumps and motors. Single pole, double throw switching action. Provides up to 120 tripper slots in equal increments. Cycle repeats every 1, 2 or 4 hrs. Sixty trippers included. Extra trippers available if required. (No. 2E132). Tripper mounts on face of dial perpendicular to face of dial for maximum accuracy. Rated 20 amps per pole inductive, 1/2 HP, 2500 watts per pole tungsten. 125VAC, 60 Hz. Drawn steel hammer-tone gray case with hasp for seal or lock. 7 3/4 H, 5 W, 3" D. UL and CSA listed. Shpg. wt. 3 lbs.

Cycle Range	Time Per Tripper	Stock No.	Retail	Each
1 Hour	30 Sec.	2E357	\$43.00	\$19.76
2 Hour	1 Min.	2E408	43.00	19.76
4 Hour	2 Min.	2E131	43.00	19.76

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

WALL SHUTTERS FOR 10 TO 60" EXHAUST FANS

Rust-Resistant and Standard Units. Can Be Motorized Using Optional Shutter Motor



DISCHARGE SIDE
Single Panel Unit Shown



FAN SIDE
Double Panel Unit Shown

Dayton

\$7.85

10" Standard
Shutter



**OPTIONAL
SHUTTER MOTOR**

Precision built wall shutters for direct or belt-driven exhaust fans. Vanes open automatically when fan turns on, close when air flow ceases. Can be motorized to relieve starting load on fan motor using optional shutter motor listed. Choice of standard units for normal applications or rust resistant units for corrosive environments as in poultry houses, barns, chemical plants, foundries, etc.

Aluminum vanes are counterbalanced for easy opening, steel reinforced for strength, and felted for quiet, weathertight closure. Stainless steel vane pivot pins on rust resistant units, steel pins on standard units. Tie rod is attached to vanes on fan side; 54" & 60" shutters have two additional tie rods on discharge side for uniform

opening and closing. Vanes of rust-resistant units are finished in white acrylic enamel, vanes of standard units are bare aluminum. Shutter frame is 18-gauge welded steel; rust-resistant units finished in red enamel, standard units in gray enamel. Frame is 4 1/8" D with 1 5/8" flange. Ample 3/32" dia. mounting holes.

OPTIONAL SHUTTER MOTOR—For 10 thru 48" shutters only, single or double panel. Relieves starting load on fan motor by automatically opening and closing shutter. Assures uniform opening and closing. Motor housing is 6 1/4" H x 3 1/2" W x 2 3/4" D. 6" L leads, ground wire included, plus junction box for easy wiring. 60 Hz. Appropriate motor stock number listed under tables below.

For Fan Dia.	Opening Required Square	Overall Dimen. Square	STANDARD SHUTTERS			RUST-RESISTANT SHUTTERS			Shpg Wt.
			Stock No.	Retail	Each	Stock No.	Retail	Each	
SINGLE PANEL SHUTTERS FOR 10 to 30" DIA. FANS									
10"	11"	13 1/4"	2C526	\$11.75	\$ 7.85	4C110	\$13.45	\$ 8.98	5
12	13	15 1/4"	1C742	13.15	8.78	4C111	15.00	10.03	5
16	17	19 1/4"	1C743	17.15	11.43	4C112	19.60	13.06	7
18	19	21 1/4"	1C744	19.10	12.74	4C113	21.85	14.55	8
20	21	23 1/4"	1C745	20.55	13.71	4C038	23.50	15.65	9
24	25	27 1/4"	1C746	24.55	16.38	4C039	28.10	18.71	12
30	31	33 1/4"	1C055	29.20	19.45	4C040	33.55	22.38	19
36	37	39 1/4"	4C521	38.95	25.98	4C522	44.50	29.65	26

115V SHUTTER MOTOR—For above single panel shutters. 4 1/2 lbs. No. 2C831. Ret. \$35.60. Each \$23.74

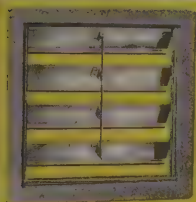
230V SHUTTER MOTOR—For above single panel shutters. 4 1/2 lbs. No. 4C534. Ret. \$35.60. Each \$23.74

DOUBLE PANEL SHUTTERS FOR 36 to 60" DIA. FANS(*)									
36"	37"	39 1/4"	1C209	\$48.65	\$32.42	4C041	\$55.65	\$37.11	28
42	43	45 1/4"	1C210	58.10	38.71	4C114	66.25	44.17	32
48	49	51 1/4"	1C211	67.60	45.05	4C115	77.35	51.57	40
54(*)	55	57 1/4"	3C115	101.75	67.83	—	—	—	52
60(*)	61	63 1/4"	3C116	117.40	78.26	—	—	—	58

(*) Nos. 3C115 & 3C116 also have two auxiliary tie rods on discharge side of vanes to accommodate high velocity fans and blowers.

115V SHUTTER MOTOR—For 36-48" double panel shutters. 6 lbs. No. 2C832. Ret. \$39.35. Ea. \$26.22

230V SHUTTER MOTOR—For 36-48" double panel shutters. 6 lbs. No. 4C535. Ret. \$39.35. Ea. \$26.22



10 to 24" ECONOMY WALL SHUTTERS

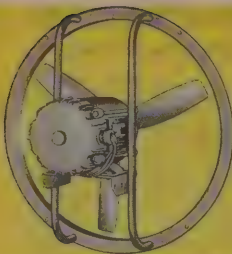
\$6.28 10" Unit

Aluminum vanes with felted edges & anti-friction pivot pins. Tie rod on fan side. Frame is 18-ga., riveted steel, 2 3/8" D with 1 5/8" flange. Ample 3/32" dia. mounting holes.

SHUTTER DIMENSIONS & PRICES

Fan Size	Opening Req'd. Square	Overall Dimen. Square	Stock No.	Retail	Each	Shpg. Wt.
10"	11"	13 1/4"	2C517	\$9.45	\$6.28	3
12"	13"	15 1/4"	2C518	10.50	6.98	4
16"	17"	19 1/4"	2C520	13.60	9.08	5
18"	19"	21 1/4"	2C521	15.20	10.12	6
20"	21"	23 1/4"	2C522	16.30	10.86	6
24"	25"	27 1/4"	2C523	19.50	12.98	9

SEE WARRANTY INFORMATION ON PAGE 684



EXPLOSION PROOF EXHAUST FANS

Air Deliveries Based on Standard Test Codes of AMCA
12 to 24" Cast Aluminum Fan Blades. Explosion Proof Motors

Dayton

\$108.80

No. 4C020

Handles all heavy-duty air exhausting jobs in atmospheres containing flammable, explosive vapors or gases. Spray booth usage subject to local code approval. Air deliveries specified below are based on standard test codes of AMCA. Has non-static, cast aluminum fan blade. Powered by 1725 RPM, 115V, 60 Hz totally enclosed, explosion proof, ball bearing, split-phase motor, except No. 4C371 which has 115/230V, 60 Hz, capacitor motor with automatic reset thermal protection. UL listed. (Class 1, Group D and Class 2, Groups F & G). Built into heavy steel frame with ample mtg. holes. For shutters see Index under Shutters. Shipped completely assembled.

Blade Dia.	CFM AIR DELIVERY				Motor HP	Full-Load Amps	Volts 60 Hz	Dia. Opening Required	Stock No.	Retail	Each	Shpg. Wt.
	Free Air	1/8" SP	1/4" SP	3/8" SP								
12"	855	645	330	175	1/4	4.5	115	13 1/2"	4C020	\$181.70	\$108.80	38
16	2000	1640	1260	750	1/4	4.5	115	17 1/2"	4C369	189.55	113.51	42
18	2210	1810	1300	800	1/4	4.5	115	19 1/2"	4C370	193.85	116.09	42
20	2475	1860	1350	850	1/4	4.5	115	21 1/2"	2C963	196.05	117.40	44
24	3535	2520	1720	1000	1/3	6.4	115	25 1/2"	2C856	218.05	130.57	46
24	4265	3320	2480	2200	1/2	8.6	115/230	25 1/2"	4C371	274.40	164.32	52

Dayton

FAN SPEED & REVERSING SWITCHES

TWO-SPEED FAN SWITCH

For up to 3/4 HP Split Phase and PSC Motors

DPDT center-off toggle switch for 2-speed split phase and permanent split capacitor motors. Polished metal wall plate, 2 1/4 x 4 1/2". HI and LO markings. Mounts in standard flush or surface handy box. 15 amps at 125V, 10 amps at 250V, 3/4 HP, 60 Hz. Shpg. wt. 5 oz.

No. 2X605. Retail \$5.16. Each \$3.61; lots 6.....**\$3.35**

THREE-SPEED FAN SWITCH

For 1/30 to 1/12 HP Single-Speed Shaded Pole Motors

Provides HI, Med, & Lo speed control for single-speed 1/30 to 1/12 HP, 115V, 60 Hz, shaded pole motors. Ideal for fans, blowers, etc. Speeds clearly marked on switchplate. Rated 3.0 amps at 115V, 60 Hz. Mounts in standard flush or surface handy box. Chromed wall plate. Shpg. wt. 1 lb.

No. 4X445. Retail \$14.82. Each \$10.37; lots 6.....**\$9.63**

FAN REVERSING SWITCH, ONE-SPEED

For up to 3/4 HP Split Phase and Capacitor Start Motors

Heavy-duty, 3PDT switch for starting and reversing split phase and capacitor start motors up to 3/4 HP. Positive quick-make, quick-break, durable toggle contact mechanism. Mounts in standard flush or surface handy box. Polished metal wall plate with Fwd-Off-Rev markings. Shpg. wt. 4 oz.

No. 4X814. Retail \$8.29. Each \$5.80; lots 6.....**\$5.39**

FAN REVERSING SWITCH, TWO-SPEED

For up to 1/2 HP Split Phase and Capacitor Start Motors

For starting and reversing 1 or 2-speed, reversible, split-phase or capacitor motors. Reverses rotation of blade so fan can exhaust or pull in fresh air. Rotary type switch rated 1/2 HP, 115V; 1 HP, 230VAC, 60 Hz. 5 positions—Off, Forward High & Low, Reverse High & Low. Mounts in standard flush or surface handy box. Chrome wall plate. Shpg. wt. 8 oz.

No. 2X703. Retail \$8.49. Each \$5.94; lots 6.....**\$5.52**

12-HOUR TIMER WITH 2-SPEED SWITCH

For up to 3/4 HP Split Phase and PSC Motors

0 to 12 hour timer and DPDT center-off toggle switch mounted on 4 1/2" sq. polished metal wall plate. Fits 4 x 4 x 2 1/2" handy box. Switch rated 1/2 HP, 125 VAC; 3/4 HP, 250 VAC. Shpg. wt. 1 lb.

No. 2E089. Retail \$13.67. Each \$8.78; lots 6.....**\$8.54**

No. 2X605
2-SPEED
SWITCH

\$3.35

Lots 6



No. 4X445
3-SPEED
SWITCH

\$9.63

Lots 6



No. 4X814
1-SPEED
REVERSING

\$5.39

Lots 6



No. 2X703
2-SPEED
REVERSING

\$5.52

Lots 6



No. 2E089
2-SPEED
WITH
TIMER

\$8.54

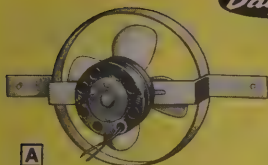
Lots 6



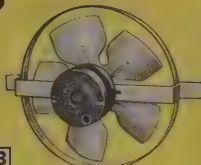
6 to 12" DIAMETER RING and DUCT-TYPE FANS

For Exhausting, Cooling, Air Flow Boosting, Etc. 115V, 60 Hz Dayton Motors

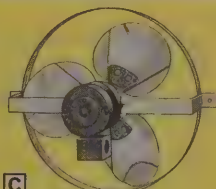
Dayton



A
6" RING FRAME FAN
\$13.45 No. 2C221

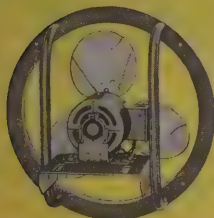


B
9" RING FRAME FAN
\$14.65 No. 4C107



C
12" RING FRAME FAN
\$18.12 No. 2C107

All Fans Listed Shipped Completely Assembled



D
12" HEAVY-DUTY RING FRAME FAN
\$34.49
No. 2C100



E
8, 10 & 12" DUCT FANS
\$15.46
No. 2C222

Many exhausting and cooling applications for these fans; cooling electrical equipment, ventilating small rooms or enclosures, etc. Duct-type fans are suited for boosting air flow in heating and air conditioning ducts. Sturdy aluminum fan blades. Galvanized steel ring or duct

housing, except No. 2C100 (fig. D) which has heavy-gauge steel angle frame with gray enamel finish. All motors are Dayton, 1500 RPM, 115V, 60 Hz, shaded pole type. Motors with junction box have 6" leads, motors without junction box have 12" leads.

Fig.	Blade Dia.	Free Air CFM	HP	Motor Enclosure	Junction Box	Mtg. Holes OC	Duct Dia.	Stock No.	Retail	Each	Shpg. Wt.
6 to 12" DIAMETER RING FRAME FANS											
A	6"	150	1/100	Open	No	11 3/8"	—	2C221	\$22.45	\$13.45	3
B	9"	290	1/70	TE	No	11 1/4"	—	4C107	24.45	14.65	4
C	12"	665	1/40	TE	Yes	13 3/8"	—	2C107	30.25	18.12	6
D	12"	1075	1/20	TE	Yes	14 3/8"	—	2C100	57.60	34.49	13

8 to 12" DIAMETER DUCT-TYPE FANS

E	8"	300	1/100	Open	No	—	10"	2C222	\$25.80	\$15.46	5
B	10"	425	1/70	Open	No	—	12"	2C223	26.70	16.00	5
E	12"	660	1/40	Open	No	—	14"	2C224	29.70	17.78	6

12 & 16" ECONOMY PANEL FANS

720 & 980 CFM Air Deliveries. Totally Enclosed Motors

Dayton

\$23.35

No. 2C994

Economical ventilation for attics, stores, offices, etc. Units have 12 or 16" dia., 3-wing aluminum fan blade powered by Dayton 115V, 60 Hz, 1500 RPM, totally enclosed, shaded pole motors. Air deliveries listed in table below are based on AMCA test codes for exhaust systems. Motor is mounted on rigid steel-panel suitable for installation on wall, built-up frame, etc., with or without shutter. Conduit junction box provided on motor. For shutters, see Index under Shutters, Fan. Punched mounting holes provided in panel corners. Gray enamel finish.

Shipped Completely Assembled

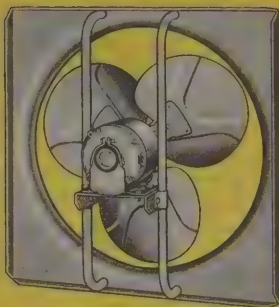
Blade Dia.	Free Air CFM	Control	HP	Full-Load Amps	Dimensions Square	Deep	Stock No.	Retail	Each	Shpg. Wt.
12" 16"	720	Manual	1/30	1.0	14 1/8"	6 1/4"	2C994	\$39.00	\$23.35	8
	980	Manual	1/20	1.9	18"	7"	2C995	51.65	30.92	13

THERMOSTAT for above fans. 90 to 130°F range. No. 2E340. Retail \$15.00. Each.....\$7.37

SEE WARRANTY INFORMATION ON PAGE 684

VENTURI FANS, 3-WING ALUMINUM BLADES

Air Deliveries Based on AMCA Test Codes. Heavy-Duty Venturi Panel
12 to 24" Fan Blades. Shipped Unassembled. 1 & 2 Speed, Totally Enclosed Motors



Illustrated Completely Assembled;
Shipped as Separate Components

Dayton

\$27.55

No. 7C867

Efficient, economical, venturi-type exhaust fans for many commercial, industrial and farm ventilating applications. Shipped unassembled for maximum economy; assemble in minutes using simple hand tools. Air deliveries based on AMCA test codes for exhaust systems. Fans have heavy-duty venturi panel with tubular motor base supports for rigidity. Adjustable, pre-punched motor base fastens to tubular supports with U-clips. 3-wing fan blade is embossed bright aluminum. Gray venturi frame. Available with 1 & 2-speed, single phase, totally enclosed, split phase Dayton motors. See index under Shutters, Fan for complete description of recommended automatic wall shutter. Blade, motor and frame shipped in separate cartons.

Blade Dia.	VENTURI PANEL Panel Sq.	PANEL DIMENSIONS Max. Motor Extension From Face of Venturi	Recommended Wall Shutter Stock No.	Each
12"	16x16"	10 1/2"	1C742	\$ 8.78
16	20x20	10 1/2"	1C743	11.43
18	22x22	11"	1C744	12.74
20	24x24	11"	1C745	13.71
24	28x28	12 1/2"	1C746	16.38

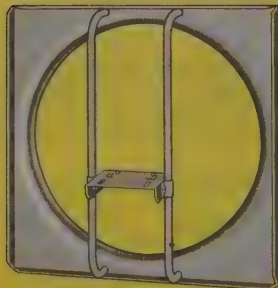
Blade Dia.	CFM AIR DELIVERY			HP	Motor RPM	TOTALLY ENCLOSED MOTORS			
	Free Air	1/8" SP	1/4" SP			Single Phase 115V, 60 Hz Stock No.	Each	Single Phase 230V, 60 Hz Stock No.	Each
12"	970	855	645	1/20	1500	7C867	\$27.55	—	—
	1430	1335	1065	1/4	1725	7F416	41.09	7F417*	\$62.15
	1430/945	1335/670	1065/390	1/4	1725/1140	7F419	58.17	—	—
16	2275	2150	1975	1/4	1725	7C527	43.10	7F420*	64.16
	2275/1505	2150/1280	1975/950	1/4	1725/1140	7C528	60.18	—	—
18	2845	2680	2525	1/4	1725	7C529	44.63	7F422*	65.69
	2845/1875	2680/1625	2525/1125	1/4	1725/1140	7C530	61.71	—	—
	3275	3125	2875	1/3	1725	7F424	47.17	7F425	49.02
	3275/2155	3125/1900	2875/1140	1/3	1725/1140	7F427	63.84	—	—
20	2920	2760	2575	1/4	1725	7C531	45.90	7F428*	66.96
	2920/1930	2760/1630	2575/1215	1/4	1725/1140	7C532	62.98	—	—
	3445	3275	3110	1/3	1725	7C642	48.44	7F430	50.29
	3445/2280	3275/2040	3110/1585	1/3	1725/1140	7C868	65.11	—	—
	4175	4020	3850	1/2	1725	7F432	60.48	7F433	62.33
	4175/2775	4020/2475	3850/2050	1/2	1725/1140	7F435	84.09	—	—
24	3250	2900	2635	1/4	1725	7C533	49.02	7F436*	70.08
	3250/2135	2900/1665	2635/1210	1/4	1725/1140	7C534	66.10	—	—
	3975	3725	3450	1/3	1725	7F438	51.56	7F439	53.41
	3975/2625	3725/2175	3450/1750	1/3	1725/1140	7F441	68.23	—	—
	4750	4550	4300	1/2	1725	7C869	63.60	7F442	65.45
	4750/3145	4550/2775	4300/2350	1/2	1725/1140	7F444	87.21	—	—

(*) Capacitor motors with automatic reset thermal protection.

12 to 24" EXHAUST FAN VENTURI FRAMES

Rigid Steel Panel, Efficient Venturi. Slotted Motor Base

\$8.89 Assembles easily with blade and motor into an efficient, low cost exhaust fan. Motor base assembles to vertical tubing with "U"-clips and hardware furnished. Motor base is slotted to accommodate 48 or 56 frame. 12" frame will also accommodate resilient mounted shaded pole motors with 3 1/16 x 1 1/16" mounting dimensions. Rigid, square steel panel has venturi discharge. Gray enamel finish. For motor mounting bolts and other fan parts, see Index under Fan Parts and Accessories. Frames are individually boxed.

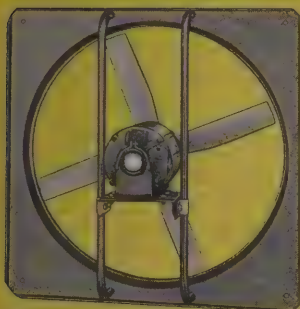


Blade Dia.	Dimen.	Stock No.	Retail	Each	Lots 5	Wt.
12"	16x16"	4C028	\$16.00	\$9.57	\$8.89	6
16"	20x20"	2C875	18.10	10.83	10.06	7 1/2
18"	22x22"	2C876	19.50	11.66	10.83	8
20"	24x24"	2C877	20.85	12.48	11.59	9
24"	28x28"	2C878	22.85	13.68	12.70	13

MOTOR MOUNTING BOLTS for above venturi frames. Set of four 5/16"-18 x 5/8" L carriage bolts.
No. 2C294. Retail 85c. Each, set of 4.....**56c**

VENTURI FANS, 4-WING CAST ALUMINUM BLADES

Shipped Unassembled. 1 & 2-speed Totally Enclosed & Explosion Proof Motors
12 to 24" Non-Sparking 4-Wing Fan Blades. Air Deliveries Based on AMCA Test Codes



Illustrated Completely Assembled;
Shipped as Separate Components

Dayton

\$47.21

No. 7F445

Designed for heavy-duty ventilating applications, especially in flammable atmospheres such as paint shops, chemical plants, mines, etc. Shipped unassembled for maximum economy; assemble in minutes using simple hand tools. Air deliveries are based on AMCA test codes for exhaust systems. Fans have heavy-duty venturi panel with tubular motor base supports for rigidity. Adjustable, pre-punched motor base fastens to tubular supports with U-clips. Fan blade is non-sparking, cast aluminum. Available with 1 & 2-speed, single phase, totally enclosed and explosion proof, split phase Dayton motors. See index under Shutters, Fan for description of recommended automatic wall shutter. Blade, motor and frame shipped in separate cartons.

Blade Dia.	VENTURI Panel Sq.	PANEL DIMENSIONS Max. Motor Extension From Face of Venturi	Recommended Wall Shutter Stock No.	Each
12"	16x16"	10½"	4C111	\$10.03
16	20x20	10½"	4C112	13.06
18	22x22	11	4C113	14.55
20	24x24	11	4C038	15.65
24	28x28	12½"	4C039	18.71

Blade Dia.	CFM AIR DELIVERY					TOTALLY ENCLOSED				EXPLOSION PROOF	
	Free Air	1/4" SP	1/2" SP	HP	Motor RPM	Single Phase 115V, 60 Hz Stock No.	Each	Single Phase 230V, 60 Hz Stock No.	Each	Single Phase 115V, 60 Hz Stock No.	Each
12"	1250	700	—	1/4	1725	7F445	\$47.21	7F446†	\$68.27	7F448	\$84.94
	1250/835	700/465	—	1/4	1725/1140	7F449	64.29	—	—	—	—
16	2380	1465	—	1/4	1725	7F450	51.08	7F451†	72.14	7F453	88.81
	2380/1590	1465/975	—	1/4	1725/1140	7F454	68.16	—	—	—	—
18	3000	2200	1300	1/4	1725	7F455	53.34	7F456†	74.40	7F458	91.07
	3000/2000	2200/1465	1300/865	1/4	1725/1140	7F459	70.42	—	—	—	—
	3600	2820	1700	1/3	1725	7F460	55.88	7F461	57.73	7F463	98.01
	3600/2400	2820/1880	1700/1135	1/3	1725/1140	7F464	72.55	—	—	—	—
20	3100	2300	1420	1/4	1725	7F465	55.96	7F466†	77.02	7F468	93.69
	3100/2065	2300/1535	1420/950	1/4	1725/1140	7F469	73.04	—	—	—	—
	3700	2975	1960	1/3	1725	7F470	58.50	7F471	60.35	7F473	100.63
	3700/2470	2975/1985	1960/1310	1/3	1725/1140	7F474	75.17	—	—	—	—
24	4200	3570	2360	1/2	1725	7F475	70.54	7F476	72.39	7F478†	123.78
	4200/2800	3570/2380	2360/1575	1/2	1725/1140	7F479	94.15	—	—	—	—
	4470	3260	2165	1/3	1725	7F480	61.17	7F481	63.02	7F483	103.30
	4470/2980	3260/2175	2165/1445	1/3	1725/1140	7F484	77.84	—	—	—	—
24	5600	4300	3000	1/2	1725	7F485	73.21	7F486	75.06	7F488†	126.45
	5600/3740	4300/2870	3000/1800	1/2	1725/1140	7F489	96.82	—	—	—	—
	6200	5400	4320	3/4	1725	7F490*	101.92	7F490*	101.92	7F492†	138.96

(*) 115/230V, 60 Hz, capacitor motor. (†) 115/230V, 60 Hz, capacitor motor with automatic reset thermal protection.

FAN MOTOR CRADLE BASES



50c

White Stocks Last

Adapts 3½" (56 frame) and 3" (48 frame) base to shaft center rubber mounted motors for air circulator fan applications. Replaces existing base and uses latches on motor. ¾" hole for mounting to fan column. Gray finish. Shpg. wt. 2 lbs.

Stock No.	Code Ltr. (*)	Mfg. O.C.	Shaft Ht.	Nema Frame	Was	Each, While Stocks Last
2C300	A	7½"	3"	48	\$1.39	\$0.50
4C280	B	6½"	3½"	56Z	1.39	.50
1C286	C	7½"	3½"	56	1.39	.50

MOTOR CRADLE TALLY—See (*) Above

Motor No.	Base (*)	Motor No.	Base (*)	Motor No.	Base (*)	Motor No.	Base (*)
4K731	C	5K523	C	5K914	A	6K075	C
5K180	C	5K547	C	5K917	A	6K090	B

18" PLASTIC FAN BLADE

Delivers 1600 CFM. Quiet and Efficient



\$5.96

For air circulators—not designed for exhaust fan use. Molded, black plastic. 1600 CFM with 1/30 HP, 1500 RPM motor. 5/16" bore. CW rotation facing discharge. Shpg. wt. 1 lb.

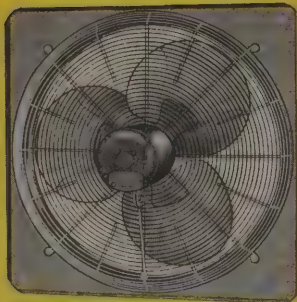
No. 2C512. Retail \$8.95. Each \$5.96

Appropriate Shaded Pole Motors for Above 115V, 60 Hz. 5/16" shaft. Shpg. wt. 4 lbs.

HP	RPM	Cord	Stock No.	Each	Shpg. Wt.
1/30	1550	14"	3M546	\$7.71	3
1/30	1500/1000	9 ft. (#)	3M550	13.33	4

(#) Has plug and 2-speed switch.

16 to 24" VENTURI-MOUNTED EXHAUST FANS



Comply with
OSHA
Requirements

Totally-Enclosed Dayton 1 & 2-Speed Motors
Venturi Panel for Efficient Ventilation
Air Deliveries Based on AMCA Test Codes

Dayton

\$30.55

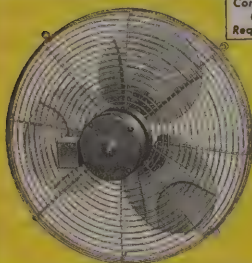
12" Fan

Widely used for commercial, industrial and farm building ventilation. Air deliveries are based on AMCA test codes for exhaust systems. Heavy-gauge steel wire guards comply with OSHA requirements. Guard secures motor unit to steel venturi panel. Venturi discharge assures quiet and efficient ventilation. Powered by Dayton motors which assure dependable performance where excessive dust, grease, moisture, etc., are present. Motors are totally enclosed, sleeve bearing type, 115V, 60 Hz; 1/30 and 1/20 HP are shaded pole, all others are split phase. Bright aluminum 3-wing fan blades with plated steel spider. Heavy steel panel 4" wider and higher than fan blade diameter. Ample holes punched in panel for easy mounting. Gray panel; zinc lustron finish guard. Automatic shutter recommended; see Index under Shutters, Fan.

Shipped Completely Assembled

Blade Dia.	CFM AIR DELIVERY			Motor		Full-Load Amps	Stock No.	Retail		Shpg. Wt.
	Free Air	1/8" SP	1/4" SP	RPM	HP			Each	Each	
12"	730	—	—	1500	1/30	1.0	4C361	\$51.00	\$30.55	10
16	960	—	—	1500	1/20	1.9	4C007	61.40	38.77	15
18	2845	2680	2525	1725	1/4	4.4	4C362	97.90	58.62	26
20	2920	2760	2575	1725	1/4	4.4	4C009	105.51	63.18	36
	2920/1930	2760/1630	2575/1215	1100/800	1/4	3.9	4C010	124.05	74.29	40
24	3975	3725	3450	1725	1/3	5.2	4C363	138.00	82.63	45
	5520/4010	4800/2800	3950/2100	1100/800	1/3	4.8	4C364	148.50	88.92	51

12 to 24" GUARD-MOUNTED EXHAUST FANS



Comply with
OSHA
Requirements

Totally Enclosed, Dependable Dayton Fan Motor
Air Deliveries Based on AMCA Test Codes

Dayton

\$21.32

12" Fan

These easily installed exhaust fans provide efficient ventilation for personnel, live stock, poultry, etc. Air deliveries are based on AMCA test codes for exhaust systems. Guards comply with OSHA requirements. Motors are 115V, 60 Hz and totally enclosed to permit their use in dusty, grease-laden atmospheres in factories, garages, stores, laundries, stock barns, etc. Conduit junction box provided. Fan blades are deep-pitched, 3-wing aluminum type. Can be mounted vertically as well as horizontally. Guard has four mounting loops for ease of installation. Can be mounted on plywood panel with circle cut-out one-inch larger than diameter of fan blade used, or mounted directly over wall opening; mounting screws included. Automatic shutter recommended; see Index under Shutters, Fan.

Shipped Completely Assembled

Blade Dia.	CFM AIR DELIVERY			Motor		Full-Load Amps	Mounting OC		Stock No.	Retail		Shpg. Wt.
	Free Air	1/8" SP	1/4" SP	RPM	HP		W	H		Each	Each	
12"	720	—	—	1500	1/30	1.0	14 3/4"	OC	2C791	\$35.60	\$21.32	7
16	960	—	—	1500	1/20	1.9	18 3/4"	OC	2C792	45.62	27.32	13
18	2845	2680	—	1725	1/4	4.4	21 3/4"	OC	4C365	88.70	53.11	24
20	2920	2485	—	1725	1/4	4.4	22 1/2"	16 1/2"	2C794	95.40	57.14	28
24	3975	3725	—	1725	1/3	5.2	27 3/4"	OC	4C366	120.25	72.00	33

ATTIC FAN SPST THERMOSTAT

Controls Attic Ventilators, Fans, Dampers. Line Voltage

\$7.37

Economical line voltage thermostat controls temperature in attic, crawl space, etc. Turns fan on and off automatically. Heavy-duty snap-action switch closes on temperature rise. Installs near fan in standard 2x4" conduit box. For up to 3/4 HP, 115V or 1 1/2 HP, 230V inductive motor loads. Range 90 to 130°F. 15°F fixed differential. Contacts make 15°F above set point. Ivory styrene case, with attractive anodized aluminum face plate. 4 3/4" H x 2 3/4" W x 2" D. (1" D on surface.) UL & CSA listed. Shpg. wt. 5 oz.

No. 2E340. Attic Fan Thermostat. Retail \$15.00. Each.....\$7.37



7 to 24" SHUTTER-MOUNTED EXHAUST FANS

Air Deliveries Based on AMCA Test Codes. Shaded Pole, PSC and Split Phase Motors

Comply with
OSHA
Requirements

Dayton

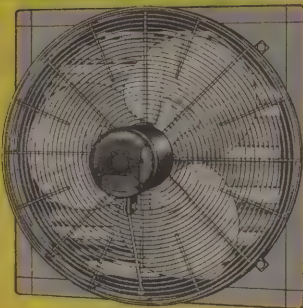


7 to 24" Diameter Fan Blades
135 to 5520 CFM Models
Single & Two-Speed Types
Totally Enclosed Motors
Automatic Shutters

\$23.48

7" Fan

Shipped Completely Assembled



Easiest-to-install, complete, efficient exhaust fan units. Air deliveries based on AMCA test codes for exhaust systems. Guarded fan is mounted on automatic shutter. All models have guards which comply with OSHA requirements. Quickly installed as a unit in wall opening 1" larger than diameter of fan blade. Widely used for ventilating stores, offices, factories, shops, farm buildings, etc. 7" fan installs in 1/2 of 8 x 16" concrete block—ideal for farm milk houses, etc. Deep-pitched aluminum 3-wing fan blades. Fan-motor mounted on heavy-duty, zinc lustron finished wire guard which is attached to automatic

shutter. Mounting holes provided in shutter frame for easy installation. Dayton brand motors, 115V, 60 Hz, prelubricated. Totally enclosed, sleeve bearing motors except Nos. 4C268 & 4C269 high volume exhaust fans which have ball bearing motors. Stock these fans for fast, high-profit sales.

Blade Dia.	CFM AIR DELIVERY		Motor		Full-Load Amps	Square Opening Required	Stock No.	Retail	Each	Shpg. Wt.
	Free Air	1/8" SP	RPM	HP						
UTILITY EXHAUST FANS, TOTALLY ENCLOSED SHADED POLE MOTORS										
7"	135	—	1500	1/40	1.0	8 1/2"	2C634	\$39.20	\$23.48	9
10"	520	—	1500	1/40	1.0	10 1/2"	2C819	43.90	26.29	10
12"	650	—	1500	1/30	1.0	13	2C710	52.15	31.22	13
18"	870	—	1500	1/20	1.9	17	2C713	69.40	41.55	19
18"	1625	—	1000	1/15	2.8	19	2C708	86.95	52.06	27

HIGH-VOLUME EXHAUST FANS, ENCLOSED PSC* & SPLIT PHASE MOTORS

18"	2845	2680	1725	1/4	4.4	19	4C357	\$115.45	\$69.12	33
20"	2920	2485	1725	1/4	4.4	21	2C342	127.05	76.08	37
	2920/1930	2485/1470	1100/800	1/4	3.9	21	2C675	142.90	85.58	39
	3445	2950	1725	1/3	5.2	21	2C785	138.10	82.68	39
24"	3250	2900	1725	1/4	4.4	25	4C358	142.85	85.54	43
	3975	3725	1725	1/3	5.2	25	4C359	155.05	92.85	45
	5520/4010	4800/2800	1100/800	1/3	4.8	25	4C360	175.30	104.98	48

HIGH-VOLUME EXHAUST FANS, ENCLOSED BALL-BEARING SPLIT PHASE MOTORS

20"	2920	2485	1725	1/4	4.3	21	4C268	\$135.55	\$81.17	37
24"	3250	2610	1725	1/4	4.3	25	4C269	155.15	82.91	42

(*) Permanent split capacitor.

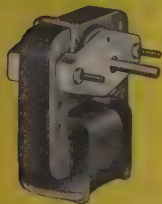
1/500 to 1/40 HP C-FRAME MOTORS

Single-Coil, Shaded Pole, Air-Over Type. 3000 RPM, 115V, 60 Hz

Dayton

\$2.76

1/500 HP

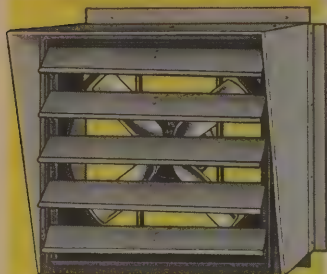


Used on portable room heaters, kitchen fans, air coolers, projectors, and similar applications. Must be mounted in air stream of driven device. Ruggedly built for dependable, quiet operation. 3000 RPM, 115V, 60 Hz. Two 1/2" long mounting studs and two 5/16" dia. mounting holes on each side of stator, 1 1/8" OC. One-piece, die-cast bearing system. All-position bearings have large oil reservoir for long life. No. 3M109 has impedance thermal protection. Class A insulation. CW rotation facing shaft. Bobbin-wound coil for uniformity, better insulation. 1/32" dia. rotor provides high torque 6 1/2" leads. Fan blades available—see Index under Fan Parts: Blades, General Purpose. Dayton brand.

HP	RPM	Volts 60 Hz	Studs OC	Shaft Dia.	Long	Overall Height	Length Less Shaft	Full-Load Amps	Stock No.	Retail	Each	Shpg. Wt.
1/500	3000	115	1 1/8"	3/16"	1"	3"	1 11/16"	0.20	3M365	\$4.17	\$2.76	1
1/250	3000	115	1 1/8"	3/16"	1"	3"	1 7/16"	0.22	3M109	4.54	3.02	1
1/150	3000	115	1 1/8"	3/16"	1"	3"	1 9/16"	0.55	3M039	4.71	3.13	1 1/4
1/70	3000	115	1 1/8"	3/16"	1"	3"	2 1/16"	0.80	3M056	6.25	4.15	2
1/40	3000	115	1 1/8"	1/4"	1"	3"	2 1/16"	1.40	3M057	7.31	4.87	2 3/4

SEE WARRANTY INFORMATION ON PAGE 684

18 to 30" POULTRY AND LIVESTOCK VENTILATORS



Mounting flanges packed unassembled for variable mounting of ventilator.

Dayton, Single-Speed, 115V, 60 Hz, Totally Enclosed Motors
Heavy-Duty Direct-Driven Fan & Shutter. Up to 9200 CFM
Air Deliveries Based on Standard Test Codes of AMCA

Dayton

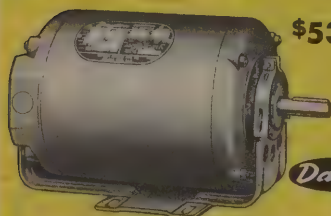
\$125.43

No. 3C140

Complete ventilator system provides controlled environment in egg hatcheries and other farm buildings where poultry, cattle, hogs, etc., are raised. Use singly or in multiples to achieve required air change. Systems include motor, shutter and heavy-duty cast-aluminum fan blade. Motors are Dayton 115V, 60 Hz, totally enclosed, sleeve bearing; 18 & 24" models have 1725 RPM split-phase type, 30" model has 1100 RPM permanent split capacitor type. Fan has sturdy, deep-drawn venturi. Intake guard meets OSHA requirements. Outside weather hood allows mounting on any side of building regardless of prevailing winds. Aluminum shutter has stainless steel vane pivot pins to prevent corrosion. Ventilator mounts through wall and is fastened on each side of wall using the eight (8) 1 1/2 x 1 1/2 angle flanges provided with unit. Housing is galvanized steel for corrosion resistance.

Blade Dia.	CFM AIR DELIVERY					Motor HP RPM		Dimensions Less Flange			Opening Req. D (Sq.)	Stock			Shpg. Wt.
	Free Air	0.1" SP	0.2" SP	0.3" SP	0.4" SP			H	W	D		No.	Retail	Each	
18"	3000	2660	2300	1925	1540	1/4	1725	22 3/4"	22 3/4"	25 1/4"	23"	3C140	\$188.15	\$125.43	58
24"	5600	4980	4500	3920	3100	1/2	1725	30 3/4"	30 3/4"	27 1/4"	30 3/4"	3C141	243.15	162.09	89
30"	9200	7250	5580	3020	—	3/4	1100	36 1/4"	36 1/4"	28 3/4"	36 1/4"	3C143	324.00	216.04	117

1/2 HP, 1725 RPM TENV POULTRY FAN MOTOR



\$53.52

Dayton

Split Phase. 115/230V, 60 Hz. Ball Bearings
Automatic-Reset Thermal Protection

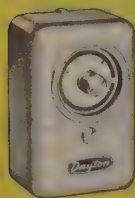
Dayton totally enclosed non-ventilated air-over motor designed especially for use on exhaust fans operating in dirty, dusty ambients such as poultry houses.

Split phase, 1725 RPM, 115/230V, 60 Hz, totally enclosed, air-over construction. Ball bearings. 40°C ambient, 1.0 service factor, Class B insulation (75°C rise), continuous duty, NEMA 56 frame, 5/8" dia. x 1 1/2" long shaft with key. Resilient base, automatic reset thermal protection. 6.8/3.4 full-load amps. Rotation easily reversed by electrical reconnection. CSA approved. Gray finish. Dayton brand. Shpg. wt. 25 lbs.

No. 6K771. Retail \$81.75. Each **\$53.52**

PERCENTAGE CYCLE-TYPE TIMER

For Controlling Liquid Pumps, Agitators, Fans, Etc.



Dayton

\$25.83

120VAC

Widely used for controlling liquid pumps, ventilating fans, greenhouse misters, milk agitators, poultry waterers, etc. Single pole, single throw switching action. Available in 0-10 and 0-30 minute timing ranges. Complete adjustability of On and Off time is an exclusive Dayton feature. Repeats cycle continuously as long as power is supplied to motor. Cycle is adjustable on a percentage basis for 0 to 90% of On time and 0 to 100% of Off time. Clearly visible dial, has easy-to-set pointer. Up to 1/2 HP motor load, or 15 amps, non-inductive load (heating, incandescent lighting).

Motor is heavy-duty, lifetime lubricated, synchronous type, 60 Hz. Color-coded leads for easy wire-nut installation. Aluminum case for surface or box mounting, 5 1/2" H x 3 3/8" W x 2 3/16" D. Dayton brand. Shpg. wt. 1 1/4 lbs.

Timing Range	Volts 60 Hz	Stock No.	Retail	Each
0-10 min.	120	2E209	\$39.57	\$25.83
0-10 min.	240	2E256	41.50	27.03
0-30 min.	120	2E210	39.57	25.83

OVER 100 BLOWER TYPES WITH UP TO 36" WHEELS STOCKED

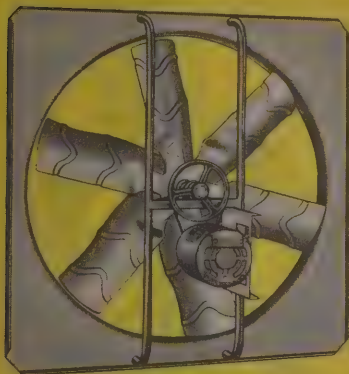
Thousands of heating and air conditioning men rely upon Grainger's blower supply service for new construction and replacement needs. The Dayton line ranges from 2" wheel shaded pole blowers to 36"



wheel industrial blowers, direct and belt-driven—all in stock for immediate delivery—with or without motors, controls, drives, shutters. Complete Dayton line is listed in this MotorBook. See Index under Blowers.

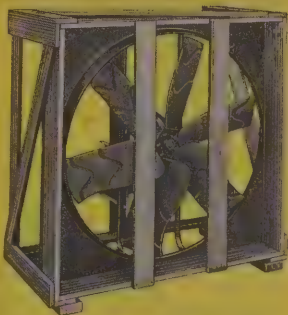
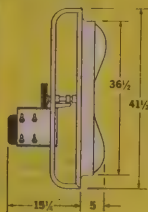
36" VERTICAL BELT-DRIVE POULTRY FAN

AMCA Certified Air Deliveries. 1/2 HP, Ball Bearing, TE Motor Included
Shipping Crate Can Serve as Installation Frame. Shipped Completely Assembled



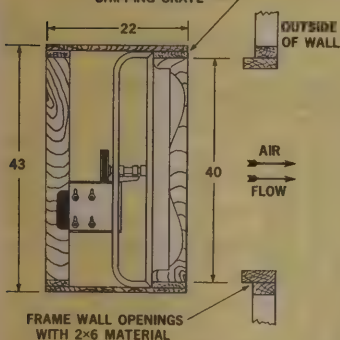
Dayton

\$145.33



Fan is shipped in sturdy crate which can be used as a mounting frame.

SHIPPING CRATE



Completely assembled 36" belt-drive exhaust fan with certified air delivery licensed by AMCA. Shipped in a sturdy wood crate which is designed for fast, easy installation in farm buildings, such as poultry and livestock houses, as shown in illustration at left. Can be easily removed from crate for installation in factories, warehouses, greenhouses, laundries, etc. Rugged construction throughout. Deep-drawn venturi

frame has heavy-gauge tubular supports for vibration-free performance. Balanced six-wing fan blade is embossed for strength and rigidity. Self-aligning, sealed, ball bearing pillow blocks. Fan has 1/2 HP, 1725 RPM, 115/230V, 60 Hz, totally enclosed, ball bearing, split phase, Dayton motor with automatic reset thermal protection. Cast iron drive sheaves with belt installed. Sturdy motor base has slotted holes to allow proper belt adjustment when necessary. Venturi frame is gray enamel, blade is red finish. Shpg. wt. 103 lbs.

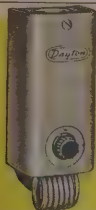
Dayton Electric Mfg. Co. certifies that the fan shown here is licensed to bear the AMCA seal. The ratings given are based on tests made in accordance with AMCA Standard 210 and comply with the requirements of the AMCA Certified Ratings Program.

No. 3C270. Fan. Retail \$242.70. Each.....**\$145.33**

CERTIFIED CFM LICENSED BY AMCA(*)

0.0" SP	0.05" SP	0.10" SP	0.125" SP	0.15" SP	0.20" SP	0.25" SP	Fan RPM	Max. BHP(†)
11,300	10,750	10,200	9900	9500	8750	7750	510	0.63

(*) For fan without ducts. (†) Does not include drive losses.



HEATING-VENTILATING CONTROL

For Farm and Commercial Applications, Single Stage Control

\$16.84

Extremely sensitive to temperature change. Switches on temperature rise or drop. Dial range adj. from 30° to 110°F. 3 1/2°F fixed differential. SPDT switch rated at 16 amps, 120V, 60 Hz inductive load—2500 watts. 22 amp non-inductive (heating), 8 amps, 240V, 60 Hz, inductive load—5000 watts, 22 amp non-inductive. Compact, helical temperature sensing element allows maximum sensitivity to temperature changes. Housed in NEMA 1 enclosure. Corrosion resistant construction. Shpg. wt. 12 oz. UL listed.

No. 2E206. Single-Stage Thermostat. Retail \$40.50. Each.....**\$16.84**

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

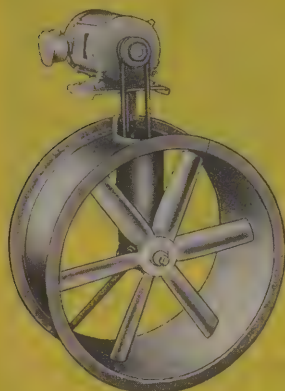
Includes Equipment Description, Characteristics and Glossary of Terminology

SEE WARRANTY INFORMATION ON PAGE 684

12 to 42" BELT-DRIVEN, TUBEAXIAL FANS

For Positive Exhausting of Fumes & Vapors in Spray Booths and Other Hazardous Locations.

AVAILABLE WITH SINGLE OR 3 PHASE OPEN TYPE OR 3 PHASE EXPLOSION PROOF MOTORS

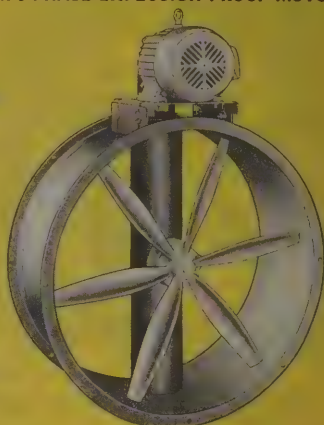


Dayton

\$79.54

12" Fan

Prepaid
Freight
300 Lbs.
& Over



18 & 24" FANS

12" & 27-42" FANS

TUBEAXIAL FAN PERFORMANCE DATA

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN						Fan RPM	HP	No. Blade Wings	No. Drive Belts
	Free Air	1/8" SP	1/4" SP	1/2" SP	3/4" SP	1" SP				
12"	1180	1000	500	—	—	—	1725	1/4	4	1
	1300	1130	565	—	—	—	2010	1/3		
18	4050	3750	3450	2750	1100	—	1725	1/2	6	1
	4350	4050	3750	3000	1350	—	1850	3/4		
24	7800	7350	6900	5650	2850	—	1530	1	6	2
	8600	8000	7500	6500	4950	2100	1700	1 1/2		
	9600	9300	9000	8200	7200	5200	1900	2		
27	9600	9000	8400	7050	4800	2800	1440	1	6	2
	10800	10250	9700	8375	6000	3600	1600	1 1/2		
	11500	11200	10700	9300	6800	4500	1725	2		
30	12300	11800	10900	9000	6900	4400	1225	2	6	2
	15450	14800	14150	12800	11150	7700	1362	3		
	17000	16500	16000	14600	13500	10200	1650	5		
34	16800	15450	14200	11400	8300	4300	1165	2	6	2
	20300	19600	18300	16000	13600	9500	1330	3		
	22800	22100	20600	18800	15900	12500	1490	5		
42	26200	25700	25100	23000	21100	17000	1086	5	4	3
	32400	31800	31100	28400	26100	21500	1215	7 1/2		
	36200	35600	34800	31800	29200	22400	1340	10		

TUBEAXIAL FAN PRICES & DIMENSIONS LISTED ON FACING PAGE

1 or 2-SPEED FAN/BLOWER SPDT RELAY

For Heating & Air Conditioning. Requires 24VAC Supply

\$8.33

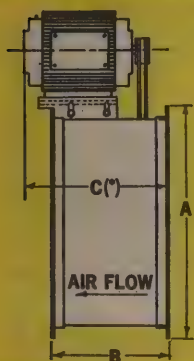
Provides low voltage control of blowers and other line voltage loads on heating, air conditioning, and combination heating/air conditioning systems where 24V power supply is already available. Can be used with single or two-speed motors. Equipped with five color-coded leads with ends stripped for ease of wiring. 1/2" conduit hub allows mounting to standard electrical box; mounting tabs also provided. Thermostat current, 0.28A at 24VAC. Normally open contacts rated 16A at 120VAC, normally closed contacts rated 9.8A at 120VAC. UL listed. Compact 2 1/16" H x 2 1/16" W x 1 1/2" D case. Shpg. wt. 12 oz.

No. 2E461. SPDT Relay. Retail \$16.65. Each.....\$8.33



WITH CAST-ALUMINUM NON-SPARKING BLADES

Blade Driven by Enclosed Belts, Operates in Any Position. Heavy-Duty Construction



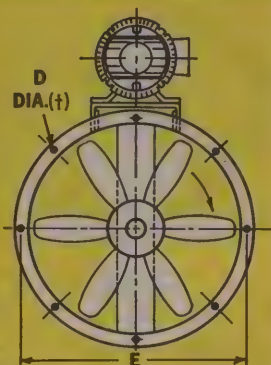
Dayton

DIMENSIONAL DATA

Blade Dia.	A	B	(*) C	(†) D	E
12"	14"	12"	15½"	¾"	13"
18	21	12	21½	¾"	20
24	27	13	25	¾"	26
27	30	12	18½	¾"	28½
30	33	16	18	¾"	31½
34	37	16	18	¾"	35½
42	45	20	21½	¾"	43½

(*) Maximum dimension using any motor listed below.

(†) 8 mounting holes in each flange.



Designed and built for heavy-duty paint spray booth exhausting. Also widely used for industrial ventilation in atmosphere containing hazardous fumes and vapors. Non-sparking, balanced cast aluminum fan blades. 12 & 42" blades are 4-wing, all others are 6-wing. Blades are driven by V-belt(s) enclosed in cylinder for maximum protection from air stream. Heavy-duty fan blade hub has pre-lubricated, oversized ball

bearings. Adjustable, heavy-duty motor base is located outside of duct area. Mounting flange on intake and discharge has eight equally spaced mounting holes for rigid installation. Unit is sturdily constructed of heavy-gauge steel for long life under rigorous operating conditions. Fan pulley and belts supplied with fan; motor and motor pulley packed separately when fan is ordered complete.

TUBEAXIAL FANS WITH AND WITHOUT MOTOR AND DRIVE

Blade Dia.	Motor HP	Less Motor & Drive		With Capacitor Motor		With 3-Phase Motor		With 3-Phase Motor	
		Stock No.	Each	Open Type, 1725 RPM 115/230V, 60 Hz	Each	Open Type, 1725 RPM 230/460V, 60 Hz	Each	Explosion Proof, 1725 RPM 230/460V, 60 Hz	Each
12"	1/4 1/3	2C860	\$79.54	29	7C559(*) \$109.61 7C560(*) 117.85	7C158 \$127.30 7C159 129.32		7C365(†) \$162.49 7C366(†) 175.72	
18	1/2 3/4	4C249	92.54	54	7C411(*) 133.85 7C367 149.40	7C636 146.76 7C368 153.10		7C643(†) 191.67 7C370(†) 204.50	
24	1 1½ 2	4C250	111.02	78	7C412 189.96 7C372 212.41 7C375 232.64	7C637 176.07 7C373 184.63 7C376 192.36		7C371 311.87 7C374 322.36 7C377 330.14	
27	1 1½ 2	3C055	179.15	77	7C176 258.09 7C177 280.05 7C178 299.99	7C179 244.20 7C180 252.27 7C181 259.71		7C378 380.00 7C379 390.00 7C380 397.49	
30	2 3 5	3C052	221.54	118	7C160 342.38 7C164 423.02 7C398(f) 524.87	7C161 302.10 7C165 328.10 7C399 341.75		7C381 439.88 7C382 473.42 7C400 529.07	
34	2 3 5	3C053	261.92	125	7C166 383.21 7C168 463.40 7C401(f) 565.25	7C167 342.93 7C169 368.48 7C402 382.13		7C383 480.71 7C384 513.80 7C403 569.45	
42	5 7½ 10	3C128	394.62	254	7C520(f) 703.66 7C524(f) 815.48 7C526(f) 916.55	7C521 520.54 7C525 578.84 7C557 614.75		7C522 707.86 7C678 816.88 7C679 886.44	

(*) 115V, 60 Hz split-phase type; all others are 115/230V, 60 Hz capacitor type. (f) 230V, 60 Hz only.

(†) 115/230V, single-phase capacitor type; all others are 230/460V, 60 Hz 3-phase motors.

PORTABLE 24-HOUR REPEATING TIMER



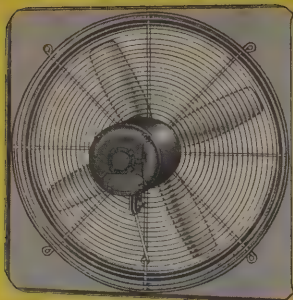
\$6.97

Attractive, versatile timer has 15 amp capacity for controlling appliances, lighting, TV and Hi Fi, heaters, etc. Repeats timed cycle every 24 hrs. Minimum On time, ¼ hr. Maximum Off time, 23¼ hrs. Easy-to-set time dial has large AM and PM divisions readable even in dim light. Color coded trippers. Equipped with manual On-Off over-ride switch and push-pull dial feature for extended On or Off periods. All controls are on front of timer case. Durable one-piece, hi-impact plastic case is angled for easy viewing. Finished in champagne white with flat black face plate. Black dial face with white numerals. 125V, 60 Hz, 1875W, 12A tungsten, 1/3 HP. UL and CSA listed. 5 ft. line cord. 3¼" H x 3½" W x 4¼" D. Shpg. wt. 1 lb.

No. 2E388. 24-Hour Timer. Retail \$10.45. Each.....\$6.97

16 to 24" HEAVY-DUTY FANS

Cast Aluminum Fan Blades, Totally Enclosed Motor
Air Deliveries Based on Standard Test Codes of AMCA
Efficient Venturi with Guarded Intake



Dayton

\$66.68

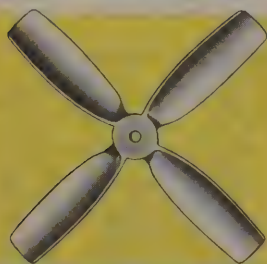
18" Fan

Comply with
OSHA
Requirements

Built to handle many heavy-duty ventilating jobs up to 1/2" SP in factories, shops, foundries, laundries, farm buildings, etc. Guards comply with OSHA requirements. Heavy-duty cast-aluminum fan blades. All fans have 4-wing blades except No. 4C059 which has 3-wing blade. Powered by 1725 or 1140 RPM, 115V, 60 Hz, totally enclosed split phase Dayton motors designed for service where air contains high concentration of dust, dirt, grease, moisture, etc. Heavy-duty steel wire guard with zinc lustron finish. Mounted on efficient venturi panel. Panels have gray enamel finish and ample punched mounting holes. Automatic shutter is recommended; See Index under Shutters, Fan.

Shipped Completely Assembled

Blade Dia.	CFM AIR DELIVERY					Motor RPM HP		Full-Load Amps	Sq. Panel Size	Stock No.	Retail		Shpg. Wt.
	Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP						Each	Each	
16"	2380	1840	1465	1100	—	1725	1/4	4.4	20"	4C163	\$111.35	\$66.68	24
18"	3000	2600	2200	1750	1300	1725	1/4	4.4	22"	4C164	118.70	71.08	26
20"	3100	2700	2300	1890	1420	1725	1/4	4.4	24	4C367	120.70	72.42	27
	3700	3255	2975	2470	1960	1725	1/3	5.2	24	4C127	137.25	82.18	30
	4200	3835	3570	3150	2360	1725	1/2	6.6	24	4C165	159.85	95.71	36
24"	4470	3620	3260	2740	2165	1725	1/3	5.2	28	4C059	144.30	86.40	35
	5600	5000	4300	3550	3000	1725	1/2	6.6	28	4C167	172.40	103.22	50



CAST ALUMINUM FAN BLADES

12 to 24" Blades. Handle Heavy-Duty Fans up to 1/2" SP
Air Deliveries Based on Standard Test Codes of AMCA
Spark-Proof—Safer for Industrial Applications

Dayton

\$8.66

12" Blade

Built for heavy-duty ventilating systems—up to 1/2" static pressure. Air deliveries listed below are based on standard test codes of AMCA at motor RPM shown. Safe for factories, foundries, laundries, farm buildings, etc.—also widely used in spray booth and other spark-proof fan applications. Blades are 3 and 4-wing type, statically balanced, cast aluminum. Operates clockwise facing discharge, hub on intake side with two set screws. 5/8" bore propellers have 3/16" W x 3/32" D keyway.

Blade Dia.	Free Air	CFM AIR DELIVERY				Motor Required HP RPM		No. Blade Wings	1/2" Bore Stock No.	Keyed 5/8" Bore Stock No.	Retail	Each	Shpg. Wt.
		1/8" SP	1/4" SP	3/8" SP	1/2" SP								
12"	1250	1140	700	—	—	1/4	1725	4	4C385	4C386	\$13.00	\$8.66	1 1/4
	2400	2180	1920	1690	1280	3/4	3450	4	4C385	4C386	13.00	8.66	1 1/4
16"	2380	1840	1465	1100	—	1/4	1725	4	4C132	4C133	16.90	11.27	2
18"	3000	2600	2200	1750	1300	1/4	1725	4	4C134	4C135	19.00	12.70	2
	3600	3040	2820	2275	1700	1/3	1725	4	4C136	4C137	19.00	12.70	2
20"	3100	2700	2300	1890	1420	1/4	1725	3	4C138	4C139	21.75	14.50	2
	3700	3255	2975	2470	1960	1/3	1725	4	4C140	4C141	21.75	14.50	2
	2800	2560	2380	2100	1575	1/6	1140	4	4C142	4C143	21.75	14.50	2
	4200	3835	3570	3150	2360	1/2	1725	4	4C142	4C143	21.75	14.50	2
24"	4470	3620	3260	2740	2165	1/3	1725	3	4C144	4C145	23.95	15.97	3
	3740	3340	2870	2370	1800	1/6	1140	4	4C146	4C147	23.95	15.97	3
	5600	5000	4300	3550	3000	1/2	1725	4	4C146	4C147	23.95	15.97	3
	4140	3900	3600	3300	2880	1/4	1140	4	—	4C149	23.95	15.97	3
	6200	5850	5400	4950	4320	3/4	1725	4	—	4C149	23.95	15.97	3

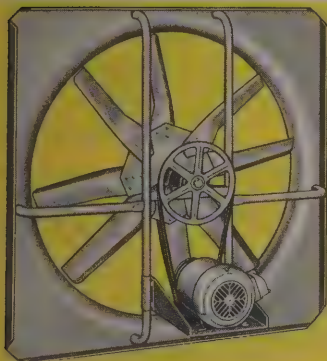
STOCK NO./PAGE NO. CROSS-REFERENCE GUIDE FOR THIS MOTORBOOK

Lists Grainger Stock No. of every product in the MotorBook, followed by the number of the page on which the product is shown.

ASK YOUR GRAINGER SALESMAN OR COUNTERMAN FOR THE CURRENT EDITION OF FORM 551943.

36" HEAVY-DUTY INTAKE-EXHAUST FAN

Recommended for Factories, Foundries, Farm Buildings, Etc.
Up to 10,080 CFM at 1/2" S.P. Intake or Exhaust with Motor Reversing Switch



Dayton

\$108.32

Less Motor
This heavy-duty, 36" ventilating fan has a special fan blade that delivers a high volume of air for either intake or exhaust. Fafnir self-aligning, heavy-duty, pre-lubricated ball bearing pillow blocks permit mounting in wall, air duct, ceiling or roof. Reversible feature is especially beneficial for farm buildings, foundries, laundries, factories, etc. Takes care of fresh air intake and exhaust requirements as needed with motor reversing switch (not included). Operates satisfactorily in duct systems up to 1/2" S.P.

Fan has statically balanced, 8-wing, 36" dia. precision steel fan blade with split taper bushing—four wings pull in outside air when operated in one direction, four wings expel inside air operated in opposite direction. 1" dia. fan blade shaft. Heavy-duty steel panel with deep-drawn venturi. Adjustable motor base pre-drilled for standard NEMA frame motors of horsepower ratings specified below. Motors are heavy-duty, ball bearing; choice of single or 3-phase. Motor and drive packed separately when fan is ordered complete. 42 x 42 x 19 1/4" D. Shpg. wt. 80 lbs. Request Bulletin 607.

No. 3C168. Fan, less motor and drive. Retail \$180.90.
Each \$108.32

CFM AT RPM SHOWN(*)

						FAN COMPLETE WITH 1725 RPM MOTOR & DRIVE									
Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP	Fan RPM	Motor HP	Dripproof Capacitor Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V, 60 Hz		Totally Enclosed Capacitor Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 208-220/440 V, 60 Hz		Shpg. Wt.
							Stk. No.	Each	Stk. No.	Each	Stk. No.	Each	Stk. No.	Each	
9360	7340	5720	4050	—	490	1/2	7C001	\$175.45	7C006	\$183.95	7C011	\$188.41	7C016	\$190.90	114
10580	8910	7380	5940	3600	575	3/4	7C002	181.77	7C007	188.88	7C012	199.83	7C017	195.83	116
11700	10220	8690	7560	5940	650	1	7C003	201.03	7C008	187.14	7C013	208.90	7C018	194.09	120
13140	11930	10490	9450	8460	765	1 1/2	7C004	226.94	7C009†	199.16	7C014§	231.60	7C019	204.72	130
14490	13410	12150	10800	10080	830	2	7C005	254.52	7C010†	214.24	7C015	345.82	7C020‡	221.65	150

(*) CFM air deliveries shown are for exhaust only; when operating as an intake fan, air deliveries will be approximately 20% less, depending on RPM and SP.

(†) 208-220/440V, 60 Hz motor. (‡) 230/460V, 60 Hz motor. (§) Capacitor start, capacitor run motor.

(‡) Automatic reset thermal protection.

FOR MOTORIZED DAMPERS SEE INDEX UNDER DAMPER, FAN

INTAKE GUARD/HOUSING FOR BELT-DRIVE FANS

For 24 thru 60" Fans. Complies with OSHA Requirements. Use with Dayton or Other Similar Fans

Dayton

\$52.25

24" Size

Intake guards for Dayton 24 thru 60" belt-driven exhaust fans. Can also be used with other similarly constructed fans. Strongly recommended for use on fans located in any area accessible to personnel or where there is a possibility of loose objects being drawn into fan. Complies with OSHA requirements. Guards shipped unassembled. Four side panels bolt together to form guard housing which can be fastened directly to fan frame or to wall using 2 x 2" angle flanges supplied. Guard grid fastens to housing using screws supplied. Sturdy sheet metal construction.

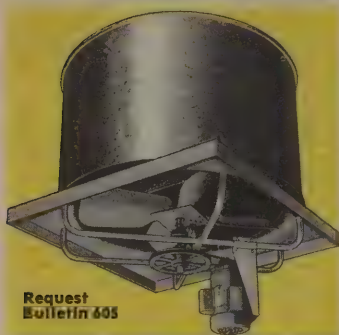
Fan Size	For Dayton Fan Stock No.		Sq. Deep	Stock No.	Retail	Each	Shpg. Wt.
24"	3C145		30" 20"	3C227	\$87.25	\$52.25	43
30	3C146		36 20	3C228	101.60	60.83	42
36	3C147, 3C168, 3C220		42 27	3C229	117.45	70.32	73
42	3C148, 3C221		48 30	3C230	174.50	104.50	86
48	3C149, 3C222		54 32	3C231	234.00	140.08	100
54	3C150, 3C223		60 34	3C232	294.60	176.42	195
60	3C151, 3C224		66 37	3C233	325.00	194.58	225

ADDITIONAL COPIES OF GRAINGER MOTORBOOK AVAILABLE

Are there other people in your organization who qualify for a Grainger MotorBook? If so, contact your local Grainger Sales Office/Warehouse for copies, or write to: W. W. Grainger, Inc., Dept. F13, 5959 W. Howard St., Chicago, Illinois 60648.

36" BELT-DRIVEN UP-BLAST VENTILATOR

3/4 to 2 HP Totally-Enclosed Motors. Galvanized Finish. Easy to Install
Up to 16,900 CFM. For Foundries, Laundries, Welding Shops, Chemical Plants



Request
Bulletin 455

Dayton

\$344.05

Less Motor

Powerful, efficient, up-blast ventilator package for industrial and commercial applications. Designed to quickly discharge gases, vapors, and other airborne contaminants in order to prevent spreading to other areas.

Widely used in foundries, laundries, welding and plating shops, chemical plants, etc. Fan has precision, statically balanced, 4-wing steel fan blade with split taper bushing. Heavy-duty steel panel with deep-drawn venturi and adjustable motor base pre-drilled for standard NEMA frame motors of horsepower specified in table below.

Fafnir, self-aligning, heavy-duty, pre-lubricated ball bearing pillow blocks. 1 3/8" dia. fan blade shaft. Motors are heavy-duty, totally-enclosed, ball bearing, single-phase and 3-phase types. Aluminum damper in wind screen opens automatically when fan turns on, and closes, weather tight, when fan shuts off. Ventilator frame and tubular windscreen are constructed of heavy-gauge, galvanized steel. Tubular windscreen is reinforced every 90° with heavy-gauge steel struts. Wind screen, 40" dia. Overall height from mounting flange, 31 1/2". Mounting flange, 42" sq. inside. Motor bracket projection, 19 1/2" from mounting flange. Motor projection is 4 3/4" from end of motor base (max. projection with Dayton motors listed below). Shpg. wt. less motor, 147 lbs. Motor and drive packed separately when ordered complete. For roof mounting curb, see listing below.

No. 3C226. Dayton Up-Blast Ventilator, less motor and drive. Retail \$574.55. Each.....\$344.05
Recommended roof mounting curb: No. 4C455. For detailed description see listing below. Retail \$135.15. Each.....\$80.95

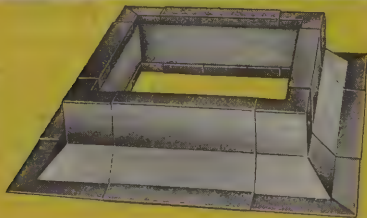
UP-BLAST VENTILATOR WITH TOTALLY-ENCLOSED MOTOR & DRIVE

Blade Dia.	CFM AT RPM SHOWN			Fan RPM	1725 RPM Motor HP	Capacitor-Start Motor		3-Phase Motor		Shpg. Wt.
	Free Air	1/8" SP	1/4" SP			115/230V, 60 Hz Stock No.	Each	208-220/440V, 60 Hz Stock No.	Each	
36"	12,100	9,400	5,300	509	3/4	7C389	\$432.25	7C394	\$424.84	182
	13,500	11,200	7,800	566	1	7C390*	442.69	7C395	427.88	190
	15,500	13,700	11,000	649	1 1/2	7C391*	463.39	7C396	435.61	196
	16,900	15,200	12,900	706	2	7C392	572.16	7C397†	445.22	210

(*) Automatic reset thermal protection. (†) 230/460V, 60 Hz.

ADJUSTABLE CURBS FOR ROOF VENTILATORS

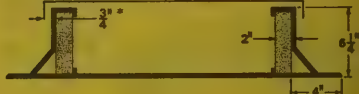
Eliminates On-Site Curb Fabrication, Assures Uniformity. Insulation Included
Galvanized Steel Construction. Use with Dayton or Similar Roof-Mounted Fans & Ventilators



Dayton

\$49.75

No. 4C453



(*) Maximum allowable clearance for roofing flashing felts (not included).

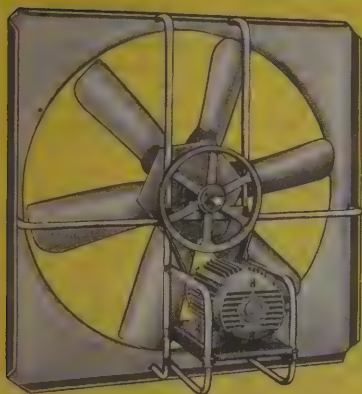
Sturdy Dayton curbs speed fan installation and provide uniformity throughout entire job. Adjustable design allows a single curb to fit several fan sizes. Fit Dayton fans and ventilators listed below and most others of similar design. Heavy gauge galvanized steel construction with continuous-welded corners. Built-in canted surface accommodates roofing material up the side

and over top of curb for leakproof installation. Load strength is more than adequate for all fans and ventilators. Includes fibreglass insulation to deaden sound and minimize heat loss. 2 x 2" wood nailers (not supplied) easily field adapted. Curbs are fabricated by International Molders' and Allied Workers' Union. Shipped disassembled; assemble in minutes.

Curb Adj. Range Outside Sq. Dim.	Fits Dayton Ventilator or Fan	Stock			Shpg. Wt.
		No.	Retail	Each	
14 1/4 to 23 1/2" 24 1/2 to 33 1/4"	2C912, 2C913, 4C097, 4C204, 4C398, 4C399, 4C400	4C453	\$83.05	\$49.75	29
	2C960, 3C033, 3C054, 3C129, 3C271, 3C276, 4C205	4C454	106.45	63.75	40
35 to 43 3/4"	3C130, 3C226, 3C272, 3C273, 3C277, 3C278, 7F250 thru 7F269, 7F537 thru 7F556, 7F577 thru 7F592, 7F619 thru 7F658	4C455	135.15	80.95	57
48 to 57 1/2"	3C274, 7F270 thru 7F289, 7F557 thru 7F576	3C216	164.50	98.50	64

36 to 60" EXTRA-HIGH-VOLUME EXHAUST FANS

Up to 63,100 at 1/8" SP. Air Deliveries Based on Standard Test Codes of AMCA

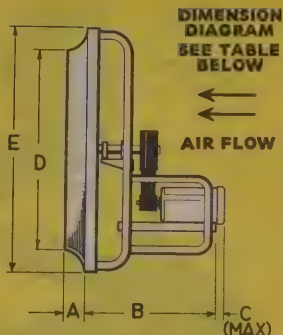


\$144.20

36" Fan, Less Motor & Drive

Dayton

Prepaid Freight
on Shipments of
300 Lbs. & Over



**DIMENSION
DIAGRAM
SEE TABLE
BELOW**

AIR FLOW

**"C" DIMENSION WILL VARY
WITH MOTOR TYPE USED**

Heavy-duty, extra high-volume, 36, 42, 48, 54 & 60" wall-mounted industrial exhaust-ventilating fans. These fans are widely used in factories, warehouses, foundries, laundries, mine tunnels, cooling towers, etc. Also efficiently used in duct installations up to 3/4" SP. Self-aligning, heavy-duty, prelubricated ball bearing pillow blocks permit mounting in wall, air duct, penthouse, etc. Fan air deliveries listed in table below are based on independent tests conducted by the Texas Engineering Experiment Station, at Texas

A & M University, in accordance with standard test codes of AMCA. Fan has heavy-duty statically balanced, 6-wing steel fan blade with heavy-duty, split-taper bushing. Heavy-duty steel panel with deep-drawn venturi and adjustable motor base pre-drilled for standard NEMA frame motors of horsepower ratings specified below. Motors are heavy-duty, ball bearing, 3-phase type. Motor, cast iron sheaves and belts packed separately when fan is ordered complete. For shutter, see Index under Shutter, Fan.

EXTRA-HIGH-VOLUME FANS LESS MOTOR & DRIVE

Blade Dia.	DIMENSIONS (See diagram above)					Shaft Dia.	Stock No.	Retail	Each	Shpg. Wt.
	A	B	C	D	E					
36"	2 3/4"	22 5/8"	1 3/4"	36 1/4"	42"	1 1/8"	3C220	\$190.75	\$144.20	87
42"	2 3/4"	26 5/8"	1 7/8"	43	48	1 1/8"	3C221	291.35	174.45	160
48"	3	26	2 5/8"	49	54	1 7/8"	3C222	352.70	211.20	121
54"	3	32	0	55	60	1 7/8"	3C223	561.30	336.10	176
60"	3	34 1/4"	2 1/4"	61	66	1 7/8"	3C224	626.85	375.35	225

EXTRA-HIGH-VOLUME FANS COMPLETE WITH MOTOR & DRIVE

Blade Dia.							Fan RPM	HP 1725 RPM	WITH 230/460V, 60 Hz 3 PHASE MOTOR			
	1/8" SP	1/4" SP	3/8" SP	1/2" SP	5/8" SP	3/4" SP			Dripproof		TEFC	
									Stock No.	Each	Stock No.	Each
36"	13,200	11,250	8,250	3,900	2,350	—	600	1 1/2	7F290(*)	\$244.11	7F294	\$251.05
	14,800	13,300	10,700	8,200	4,100	2,800	660	2	7F291(*)	252.17	7F295	259.58
	17,400	16,300	14,650	12,500	10,200	6,000	760	3	7F292	279.06	7F296	300.34
	20,600	19,800	18,800	17,400	15,200	13,600	890	5	7F293	292.75	7F297	320.95
42"	17,900	16,200	13,000	10,000	8,100	6,600	565	2	7F298(*)	280.62	7F302	288.03
	20,700	19,600	17,600	14,400	11,800	9,900	645	3	7F299	305.88	7F303	327.16
	24,900	24,100	23,000	21,400	18,900	16,100	765	5	7F300	328.06	7F304	356.26
	28,700	28,100	27,300	26,300	24,800	22,800	875	7 1/2	7F301	391.54	7F305	420.78
48"	25,400	24,200	21,700	15,600	9,800	—	535	3	7F306	351.49	7F310	372.77
	29,800	28,400	27,000	25,200	21,800	15,000	625	5	7F307	369.22	7F311	397.42
	34,500	33,500	32,300	31,100	29,700	27,700	720	7 1/2	7F308	440.91	7F312	467.25
	38,300	37,200	36,000	34,600	32,800	30,600	795	10	7F309	480.11	7F313	511.13
54"	33,500	31,400	28,400	21,500	14,400	10,300	495	5	7F314	515.05	7F318	543.25
	38,400	36,900	34,500	32,100	26,400	19,100	565	7 1/2	7F315	576.40	7F319	602.74
	43,100	41,400	39,600	37,500	34,900	29,000	620	10	7F316	614.01	7F320	645.03
	49,600	48,300	46,300	44,100	43,300	40,600	710	15	7F317	692.57	7F321	749.33
60"	46,400	44,100	41,400	37,500	30,500	19,600	505	7 1/2	7F322	622.82	7F326	649.16
	51,000	48,500	46,300	43,400	39,000	32,800	550	10	7F323	660.22	7F327	691.24
	59,200	57,400	56,000	53,400	50,900	48,200	635	15	7F324	745.26	7F328	802.02
	63,100	61,600	60,000	58,200	56,100	53,700	675	20	7F325	816.24	7F329	887.52

(*) 208-220/440V, 60 Hz.

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

SEE WARRANTY INFORMATION ON PAGE 684

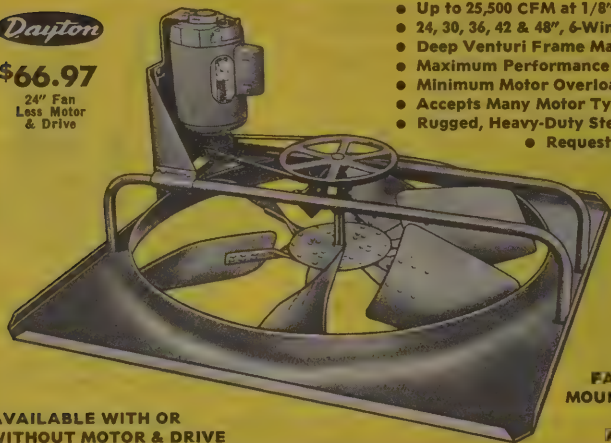
24 to 48" INDUSTRIAL/COMMERCIAL

AIR DELIVERIES ARE BASED ON STANDARD TEST CODES OF AMCA

Dayton

\$66.97

24" Fan
Less Motor
& Drive



- Up to 25,500 CFM at 1/8" Static Pressure
- 24, 30, 36, 42 & 48", 6-Wing Fan Blades
- Deep Venturi Frame Matched to Blade
- Maximum Performance at Lower RPM
- Minimum Motor Overloading at Higher SP
- Accepts Many Motor Types, Sizes & HP
- Rugged, Heavy-Duty Steel Construction
- Request Bulletin 607

↑↑
AIR
FLOW

AVAILABLE WITH OR
WITHOUT MOTOR & DRIVE

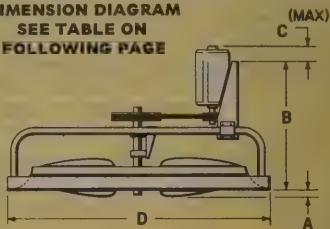
FAN CAN ALSO BE
MOUNTED VERTICALLY
FOR INTAKE
APPLICATIONS

Dayton industrial/commercial, horizontal exhaust fans combine excellent performance with rugged construction and the most up-to-date design techniques. They are highly suitable for exhausting-ventilating applications in factories, warehouses, foundries, laundries, cooling towers, mines, etc. Fans are designed for horizontal mounting, air-exhaust use, but also can be used for air intake applications. Fans are available less motor or with Dayton ball-bearing motors and drives in a wide HP range. See listings on following page.

Fan air deliveries listed in performance table are based on independent tests conducted by The Texas Engineering Experiment Station, at Texas A & M University, in accordance with the Standard Test Codes of AMCA. Unique design, 6-wing, balanced steel fan blade affords maximum air delivery while minimizing motor overloading at higher static pressures. Fan blade also delivers maximum performance at lower RPM thus assuring lower noise levels. Deep venturi frame is engineered to match fan blade characteristics, thus achieving maximum performance.

Rugged construction throughout. Heavy-gauge tubular support design is simple yet affords rigid construction with good resistance to vibration. Ball bearing pillow blocks are self-aligning and prelubricated. 1" dia. fan blade shaft. Pulleys are cast iron. Adjustable motor mount permits easy assembly, proper belt ten-

DIMENSION DIAGRAM
SEE TABLE ON
FOLLOWING PAGE



"C" DIMENSION WILL VARY
WITH MOTOR TYPE USED

sion adjustment and wide latitude of motor lengths. Shallow frame allows motor shaft to face fan blade, permitting unlimited use of open or totally-enclosed, single or three phase motors (including T & U frame) over the entire HP range listed in performance table (except 200 series and larger NEMA frames). Motor terminal box is easily accessible for convenient wiring. Motor and appropriate drive are packed separately when fan is ordered complete.

ACCESSORIES FOR EXHAUST FANS



3/4" SPONGE RUBBER

\$4.20 25 ft. roll of soft, sponge rubber strip 3/4" wide, 7/16" thick—with adhesive back. Adheres to any clean, dry surface. Ideal resilient mounting for fans, blowers, air conditioners, also for weather stripping. Cartoned. Shpg. wt. 2 lbs.

No. 2X595. 25-ft. Roll Sponge Rubber. Retail \$7.55. Each \$4.58; lots 4.....\$4.20

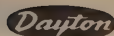
CEILING FAN THERMOSTAT



\$7.53 Can be wired to function as a cooling or heating thermostat. Two-wire type. Snap-action switch rated 1/4 HP, 115V; 1/2 HP, 230V, 60 Hz. Range 50-90°F. Adj. diff., 2° min. Beige nylon case with wall base. UL and CSA listed. Wt. 1 1/4 lbs.

No. 2E158. Dayton Fan Thermostat. Retail \$15.00. Each.....\$7.53

HORIZONTALLY-MOUNTED EXHAUST FANS



FAN PERFORMANCE, DIMENSIONS & PRICES LESS MOTOR & DRIVE

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN				Motor HP		FAN DIMENSIONS See Diagram at Left				FAN, LESS MOTOR & DRIVE		Wt.
	Free Air	1/8" SP	1/4" SP	3/8" SP	Fan RPM	1725 RPM	A	B	C(*)	D	Stock No.	Each	
24"	5,400	4,500	2,350	—	675	1/4	0"	20 1/4"	2 1/4"	30"	3C152	\$66.97	40
	6,000	5,200	3,250	2,150	740	1/3							
	6,900	6,250	5,350	3,200	845	1/2							
	7,850	7,350	6,650	5,700	970	3/4							
30"	7,100	4,650	—	—	445	1/4	1 1/4"	19 1/8"	2 1/4"	36"	3C153	77.62	48
	7,550	6,150	2,450	—	485	1/3							
	8,950	7,650	4,800	—	560	1/2							
	10,200	9,200	7,400	4,300	640	3/4							
	11,000	10,200	9,000	6,100	690	1							
36"	9,650	5,800	—	—	380	1/3	2	19 1/8"	2 3/4"	42"	3C154	86.52	58
	11,050	7,200	4,450	—	440	1/2							
	12,650	9,400	6,750	3,950	500	3/4							
	13,650	11,900	8,100	5,750	545	1							
	15,700	13,900	10,400	8,400	625	1 1/2							
42"	13,600	8,200	—	—	350	1/2	2 1/4"	19 1/8"	4 1/4"	48"	3C155	104.67	69
	15,600	10,600	8,800	—	400	3/4							
	16,800	13,400	8,500	4,800	430	1							
	19,300	16,500	11,700	8,600	495	1 1/2							
	21,200	19,100	14,300	11,200	545	2							
48"	18,400	11,500	6,300	—	335	3/4	2	19 1/8"	6 1/8"	54"	3C156	126.73	85
	19,800	13,600	8,300	4,400	365	1							
	22,700	18,200	12,000	8,200	415	1 1/2							
	25,100	21,300	15,000	11,200	455	2							
	28,700	25,500	20,300	15,600	525	3							

(*) Maximum dimension only for Dayton motors supplied with fans listed in table below.

FANS COMPLETE WITH 1725 RPM, BALL BEARING DAYTON MOTOR & DRIVE

Blade Dia.	Motor HP	Dripproof Capacitor-Start Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V, 60 Hz		Totally Enclosed Capacitor-Start Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz	
		Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.	Each
24"	1/4	7F137(†)	\$102.21	7F138	\$119.90	7F139	\$124.53	7F140	\$125.46
	1/3	7F141(†)	109.46	7F142	123.81	7F143	132.15	7F144	130.76
	1/2	7F145	124.75	7F146	129.84	7F147	140.49	7F148	136.79
	3/4	7F149	133.17	7F150	136.87	7F151	154.00	7F152	143.82
30"	1/4	7F153(†)	113.94	7F154	131.63	7F155	136.26	7F156	137.19
	1/3	7F157(†)	124.51	7F158	138.86	7F159	147.20	7F160	145.81
	1/2	7F161	139.19	7F162	144.28	7F163	154.93	7F164	151.23
	3/4	7F165	142.32	7F166	146.02	7F167	163.15	7F168	152.97
	1	7F169	162.96	7F170	149.07	7F171	170.83	7F172	156.02
36"	1/3	7F173(†)	129.71	7F174	144.06	7F175	152.40	7F176	151.01
	1/2	7F177	150.00	7F178	155.09	7F179	165.74	7F180	162.04
	3/4	7F181	154.57	7F182	158.27	7F183	175.40	7F184	165.22
	1	7F185	172.79	7F186	158.90	7F188	180.66	7F189	165.85
	1 1/2	7F190	197.94	7F191	172.01	7F192	205.35	7F193	177.57
42"	1/2	7F194	172.15	7F195	177.24	7F196	187.89	7F197	184.19
	3/4	7F198	178.72	7F199	182.42	7F200	199.55	7F201	189.37
	1	7F202	199.98	7F203	186.09	7F204	207.85	7F205	193.04
	1 1/2	7F206	212.93	7F207	187.00	7F208	220.34	7F209	192.56
	2	7F210	240.62	7F211	200.34	7F212	334.22	7F213(§)	207.75
48"	3/4	7F214	200.04	7F215	203.74	7F216	220.87	7F217	210.69
	1	7F218	218.56	7F219	204.67	7F220	226.43	7F221	211.62
	1 1/2	7F222	262.06	7F223	236.13	7F224	269.47	7F225	241.69
	2	7F226	278.25	7F227	237.97	7F228	369.55	7F229(§)	245.38
	3	7F230	358.15	7F231	263.23	7F232	424.15	7F233(§)	284.51

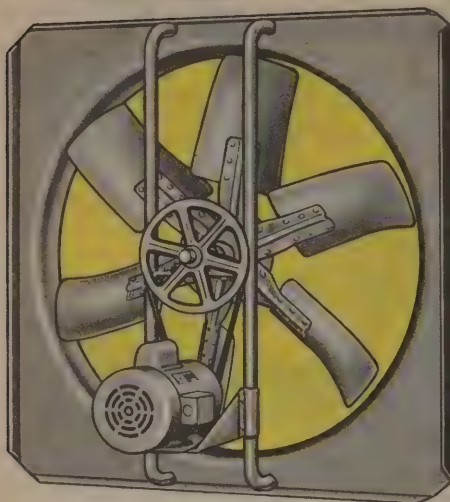
(†) 115V, 60 Hz split phase motor. (§) 230/460V, 60 Hz motor.

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

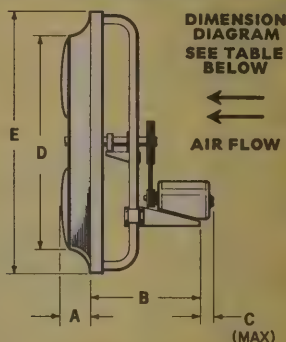
You'll like what you see at Grainger's—the large, well-kept stock—the well-informed men and women who serve you.



So, the next time you need something, come in and see how well we are set up to give you quick, competent service.



\$66.97 24" Fan, Less Motor & Drive



"C" DIMENSION WILL VARY
WITH MOTOR TYPE USED

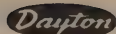
FAN PERFORMANCE, DIMENSIONS & PRICES LESS MOTOR & DRIVE

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN				Fan RPM	Motor HP 1725 RPM	FAN DIMENSIONS See Diagram Above					FAN, LESS MOTOR & DRIVE Stock No. Each		Shpg. Wt.
	Free Air	1/8" SP	1/4" SP	3/8" SP			A	B	C(*)	D	E			
24"	5,400	4,500	2,350	—	675	1/4	5 1/2"	16"	2 1/4"	24 3/4"	30"	3C145	\$66.97	40
	6,000	5,200	3,250	2,150	740	1/3								
	6,900	6,250	5,350	3,200	845	1/2								
	7,850	7,350	6,650	5,700	970	3/4								
30"	7,100	4,650	—	—	445	1/4	4 3/4"	16"	2 1/4"	30 3/4"	36"	3C146	77.62	48
	7,550	6,150	2,450	—	485	1/3								
	8,950	7,650	4,600	—	560	1/2								
	10,200	9,200	7,400	4,300	640	3/4								
	11,000	10,200	9,000	6,100	690	1								
36"	9,650	5,800	—	—	380	1/3	4 3/4"	16"	2 1/4"	36 3/4"	42"	3C147	86.52	58
	11,050	7,200	4,450	—	440	1/2								
	12,650	9,400	6,750	3,950	500	3/4								
	13,650	11,900	8,100	5,750	545	1								
	15,700	13,900	10,400	8,400	625	1 1/2								
42"	13,600	8,200	—	—	350	1/2	4 7/8"	16"	4 3/4"	43"	48"	3C148	104.67	69
	15,600	10,600	6,800	—	400	3/4								
	16,800	13,400	8,500	4,800	430	1								
	19,300	16,500	11,700	8,600	495	1 1/2								
	21,200	19,100	14,300	11,200	545	2								
48"	18,400	11,500	6,300	—	335	3/4	5 1/2"	16"	6 3/8"	49"	54"	3C149	126.73	77
	19,800	13,600	8,300	4,400	365	1								
	22,700	18,200	12,000	8,200	415	1 1/2								
	25,100	21,300	15,000	11,200	455	2								
	28,700	25,500	20,300	15,600	525	3								
54"	23,100	13,200	8,100	—	305	1	5 3/4"	19 1/4"	5 1/2"	55"	60"	3C150	218.45	114
	26,400	19,300	11,700	8,200	350	1 1/2								
	29,100	22,300	14,100	10,800	385	2								
	33,100	28,800	20,900	15,100	440	3								
	39,200	35,800	31,000	22,700	525	5								
60"	30,000	20,200	11,800	—	300	1 1/2	5 7/8"	19 3/4"	5 3/8"	61"	66"	3C151	243.98	140
	33,400	25,400	16,600	11,400	330	2								
	37,000	31,600	22,000	15,000	380	3								
	41,000	36,000	26,000	18,000	430	4								
	45,200	40,000	31,200	25,200	450	5								

(*) Maximum dimension only for Dayton motors supplied with fans listed in table on following page.

AIR MOVING EQUIPMENT FUNDAMENTALS—SEE PAGES 612 AND 613

VERTICALLY-MOUNTED EXHAUST FANS



AIR DELIVERIES ARE BASED ON STANDARD TEST CODES OF AMCA

- Up to 40,000 CFM at 1/8" Static Pressure
- Accepts Wide Range of Motor Types, Sizes & HP
- 24, 30, 36, 42, 48, 54 & 60", 6-Wing Fan Blades
- Deep Venturi Frame Matched to Fan Blade
- Minimum Motor Overloading at Higher Static Pressures
- Available with or without Motor
- Maximum Performance at Lower RPM
- Rugged, Heavy-Duty Construction Throughout
- Ball Bearing, Self-Aligning, Prelubricated Pillow Blocks
- Write for Bulletin No. 607

Dayton industrial/commercial, vertical exhaust fans combine excellent performance with rugged construction and the most up-to-date design techniques. They are highly suitable for exhausting-ventilating applications in factories, warehouses, foundries, laundries, cooling towers, mines, etc. Fans are designed for vertical mounting, air-exhaust use. Fans are available less motor (see preceding page), or with Dayton ball-bearing motors and drives in a wide HP range (see table below).

Fan air deliveries listed in performance table are based on independent tests conducted by The Texas Engineering Experiment Station, at Texas A & M University, in accordance with the Standard Test Codes of AMCA. Unique-design, 6-wing balanced steel fan blade affords maximum air delivery while minimizing motor overloading at higher static pressures. Fan blade also delivers maximum performance at lower RPM thus assuring lower noise levels. Deep venturi frame is engineered to match

fan blade characteristics, thus achieving maximum performance.

Rugged construction throughout. Heavy-gauge tubular support design is simple yet affords rigid construction with good resistance to vibration. Ball bearing pillow blocks are self-aligning and pre-lubricated. 1" diameter fan blade shaft on 24 thru 48" fans. 1 1/4" diameter fan blade shaft on 54 & 60" fans. Pulleys are cast iron. Adjustable motor mount permits easy assembly, proper belt tension adjustment and wide latitude of motor lengths. Shallow frame allows motor shaft to face fan blade, permitting unlimited use of open or totally-enclosed, single or three phase motors (including T & U frame) over the entire HP range listed in performance table (except 3 HP U frame motors on 48" fans). Motor terminal box is easily accessible for convenient electrical wiring. Motor and appropriate drive are packed separately when fan is ordered complete. For intake guards see Index under Fan Parts.

Horizontally-Mounted Industrial/Commercial Exhaust Fans Listed on Nearby Pages

FANS COMPLETE WITH 1725 RPM, BALL BEARING DAYTON MOTORS & DRIVE

Blade Dia.	Motor HP	Dripproof Capacitor-Start Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/480V, 60 Hz		Totally Enclosed Capacitor-Start Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz	
		Stock No.	Each	Stock No.	Each	Stock No.	Each	Stock No.	Each
24"	1/4	7F001(*)	\$102.21	7F002(†)	\$119.90	7F003(v)	\$124.53	7F004	\$125.46
	1/3	7F005*	109.46	7F006	123.81	7F007(v)	132.15	7F008	130.76
	1/2	7F009	124.75	7F010	129.84	7F011(v)	140.49	7F012	136.79
	3/4	7F013	133.17	7F014	136.87	7F015(v)	154.00	7F016	143.82
30"	1/4	7F017(*)	113.94	7F018(†)	131.63	7F019(v)	136.26	7F020	137.19
	1/3	7F021(*)	124.51	7F022	138.86	7F023(v)	147.20	7F024	145.81
	1/2	7F025	139.19	7F026	144.28	7F027(v)	154.93	7F028	151.23
	3/4	7F029	142.32	7F030	146.02	7F031(v)	163.15	7F032	152.97
	1	7F033	162.96	7F034	149.07	7F035(v)	170.83	7F036	156.02
36"	1/3	7F037(*)	129.71	7F038	144.06	7F039(v)	152.40	7F040	151.01
	1/2	7F041	150.00	7F042	155.09	7F043(v)	165.74	7F044	162.04
	3/4	7F045	154.57	7F046	158.27	7F047(v)	175.40	7F048	165.22
	1	7F049	172.79	7F050	158.90	7F051(v)	180.66	7F052	165.85
	1 1/2	7F053	197.94	7F054(†)	172.01	7F055(†)	205.35	7F056	177.57
42"	1/2	7F057	172.15	7F058	177.24	7F059(v)	187.89	7F060	184.19
	3/4	7F061	178.72	7F062	182.42	7F063(v)	199.55	7F064	189.37
	1	7F065	199.98	7F066	186.09	7F067(v)	207.85	7F068	193.04
	1 1/2	7F069	212.93	7F070(†)	187.00	7F071(†)	220.34	7F072	192.56
	2	7F073	240.62	7F074(†)	200.34	7F075	334.22	7F076(f)	207.75
48"	3/4	7F077	200.04	7F078	203.74	7F079(v)	220.87	7F080	210.69
	1	7F081	218.56	7F082	204.67	7F083(v)	226.43	7F084	211.62
	1 1/2	7F085	262.06	7F086(†)	236.13	7F087(†)	269.47	7F088	241.69
	2	7F089	278.25	7F090(†)	237.97	7F091	369.55	7F092(f)	245.38
	3	7F093	358.15	7F094	263.23	7F095(†)	424.15	7F096(f)	284.51
54"	1	7F097	333.01	7F098	319.12	7F099	445.12	7F100(f)	328.38
	1 1/2	7F101	362.28	7F102(†)	336.35	7F103(†)	369.69	7F104(f)	343.76
	2	7F105	379.37	7F106(†)	339.09	7F107	470.67	7F108(f)	346.50
	3	7F109	455.24	7F110	360.32	7F111(†)	521.24	7F112(f)	381.60
	5	7F113(§)	561.92	7F114	378.80	7F115(§)(†)	621.92	7F116(f)	411.56
60"	1 1/2	7F117	385.13	7F118(†)	359.20	7F119(†)	392.54	7F120(f)	366.61
	2	7F121	408.88	7F122(†)	368.60	7F123	498.11	7F124(f)	376.01
	3	7F125	486.89	7F126	391.97	7F127(†)	552.89	7F128(f)	413.25
	5	7F129(§)	591.43	7F130	408.31	7F131(§)(†)	651.43	7F132(f)	436.51

(*) 115V, 60 Hz split phase motor. (f) 230/480V, 60 Hz motor. (§) 230V, 60 Hz motor. (†) 208-220/440V, 60 Hz motor. (†) Capacitor start, capacitor run motor. (v) Automatic reset thermal protection.

SEE WARRANTY INFORMATION ON PAGE 684

30, 36 & 42" ROOF-MOUNTED VENTILATORS FOR

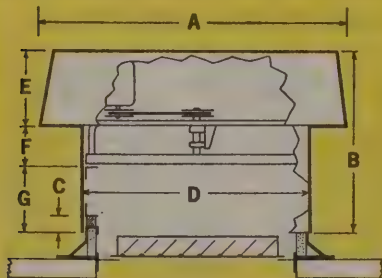
Include Dayton Motor & Drive. Galvanized Steel Construction for Long Life. Easily Assembled Up to 19,100 CFM at 1/8" SP. Belt Driven Fans. For Factories, Foundries, Warehouses, Laundries

\$306.74

No. 7F0M



SHUTTER, DAMPER & CURB NOT INCLUDED
SEE LISTING BELOW & ON FACING PAGE



PREPAID FREIGHT ON ALL UNITS
Illustrated Completely Assembled;
Shipped as Separate Components

Wide selection of roof-mounted ventilators with heavy-duty, belt-driven fans for exhaust, intake, and electrically reversible exhaust/intake applications. Widely used in factories, foundries, warehouses, laundries, etc. Side panels shipped unassembled; bolt together easily. Fan mounts on heavy-gauge flanges on inside of assembled side panels, and completely assembled top with bird screen fastens to one side panel with two hinges. Entire unit is weathertight when assembled. Hasp provided for lock. Heavy gauge flanges provided on inside of ventilator housing for installation on roof curb (not supplied). Galvanized finish on all sheet metal surfaces.

Efficient fans with balanced steel blades deliver maximum air volume. 6-wing blades supplied on intake and exhaust fans, 8-wing blade on exhaust/intake fan. Deep venturi frame is engineered to match fan blade characteristics, thus achieving maximum performance. Rugged construction throughout. Heavy-gauge tubular support design is simple yet affords rigid construction with good resistance to vibration. Ball bearing pillow blocks are self-aligning and pre-lubricated. 1" dia. fan blade shaft. Adjustable motor mount permits easy assembly and proper belt tension. Motor terminal box is easily accessible for convenient wiring. All motors are ball bearing. Pulleys are cast iron. Housing, fan, 1725 RPM motor and drive are packed separately. Select appropriate shutter for exhaust applications or motorized damper for intake or exhaust/intake applications. For detailed description of adjustable roof mounting curbs see index under Curbs, Roof.

Roof vents are fabricated by International Molders' and Allied Workers' Union.

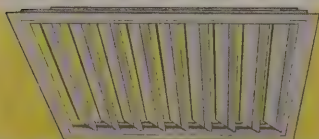
VENTILATOR DIMENSIONS

Fan Size	A	B	C	D	E	F	G
30"	53"	36"	2 1/2"	39"	15"	8 1/2"	12 1/2"
36	62	36	2 1/2"	45	15	8 1/2"	12 1/2"
42	71	38 1/2"	2 1/2"	51	15	8 1/2"	12 1/2"

RECOMMENDED ROOF MOUNTING CURB

Ventilator Size	Stock No.	Each	Shpg. Wt.
30"	4C455	\$80.95	57
36	4C455	80.95	57
42	3C216	98.50	64

30, 36 & 42" SHUTTERS for EXHAUST VENTILATORS



Dayton

\$25.68

30" Shutter

Finished in white acrylic enamel. Tie rod on fan side of shutter assures uniform vane opening. Extruded aluminum frame.

For Fan Dia.	Stock No.	Retail	Each	Shpg. Wt.
30"	4C225	\$38.50	\$25.68	12
36	4C228	47.60	31.72	17
42	3C242	64.25	42.82	21

115V SHUTTER MOTOR—For above ceiling shutters. 4 1/2 lbs. No. 2C904. Retail \$35.60. Each.....\$23.72
230V SHUTTER MOTOR—For above ceiling shutters. 4 1/2 lbs. No. 4C536. Retail \$35.60. Each.....\$23.72

EXHAUST, INTAKE & EXHAUST/INTAKE APPLICATIONS

EXHAUST VENTILATORS COMPLETE WITH FAN, MOTOR & DRIVE

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN				Fan RPM	Motor HP 1725 RPM	Dripproof Capacitor-Start Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V 60 Hz		Totally Enclosed Capacitor-Start Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz	
	Free Air	1/8" SP	1/4" SP	3/8" SP			Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.
30"	7100	4650	—	—	445	1/4	7F639*	\$306.74	7F641†	\$324.43	7F649v	\$329.06	7F654	\$330.06
	7550	6150	2450	—	485	1/3	7F640*	317.31	7F645	331.66	7F650v	340.00	7F655	338.61
	8950	7650	4600	—	560	1/2	7F641	331.99	7F646	337.08	7F651v	347.73	7F656	344.03
	10200	9200	7400	4300	640	3/4	7F642	335.12	7F647	338.82	7F652v	355.95	7F657	344.54
	11000	10200	9000	6100	690	1	7F643	355.76	7F648	341.87	7F653v	363.63	7F658	349.26
36"	9650	5800	—	—	380	1/3	7F250*	385.66	7F251	380.01	7F252v	388.35	7F253	388.96
	11050	7200	4450	—	440	1/2	7F254	386.00	7F255	391.09	7F256v	401.74	7F257	388.04
	12650	9400	6750	3950	500	3/4	7F258	390.52	7F259	394.22	7F260v	411.35	7F261	401.17
	13650	11900	8100	5750	545	1	7F262	408.74	7F263	394.85	7F264v	416.61	7F265	401.80
	15700	13900	10400	8400	625	1½	7F266	433.89	7F267†	407.96	7F268†	441.30	7F269	413.52
42"	13600	8200	—	—	350	1/2	7F270	468.35	7F271	473.44	7F272v	484.09	7F273	480.39
	15800	10600	6800	—	400	3/4	7F274	474.46	7F275	478.82	7F276v	495.75	7F277	485.57
	16800	13400	8500	4800	430	1	7F278	496.18	7F279†	483.68	7F280v	504.05	7F281	489.24
	19300	16500	11700	8600	495	1½	7F282	509.13	7F283†	483.20	7F284†	516.54	7F285	488.76
	21200	19100	14300	11200	545	2	7F286	536.82	7F287†	496.54	7F288	630.42	7F289§	503.95

INTAKE VENTILATORS COMPLETE WITH FAN, MOTOR & DRIVE

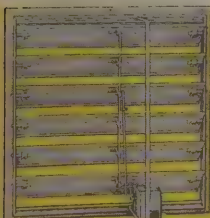
Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN				Fan RPM	Motor HP 1725 RPM	Dripproof Capacitor-Start Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V 60 Hz		Totally Enclosed Capacitor-Start Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 208-220/440V, 60 Hz	
	Free Air	1/8" SP	1/4" SP	3/8" SP			Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.
30"	7100	4650	—	—	445	1/4	7F619*	\$306.74	7F624†	\$324.43	7F629v	\$329.06	7F634	\$329.99
	7550	6150	2450	—	485	1/3	7F620*	317.31	7F625	331.66	7F630v	340.00	7F635	338.61
	8950	7650	4600	—	560	1/2	7F621	331.99	7F626	337.08	7F631v	347.73	7F636	344.03
	10200	9200	7400	4300	640	3/4	7F622	335.12	7F627	338.82	7F632v	355.95	7F637	345.77
	11000	10200	9000	6100	690	1	7F623	355.76	7F628	341.87	7F633v	363.63	7F638	348.82
36"	9650	5800	—	—	380	1/3	7F537*	385.66	7F538	380.01	7F539v	389.15	7F540	386.96
	11050	7200	4450	—	440	1/2	7F541	385.95	7F542	391.04	7F543v	401.69	7F544	397.98
	12650	9400	6750	3950	500	3/4	7F545	390.52	7F546	394.22	7F547v	411.35	7F548	401.17
	13650	11900	8100	5750	545	1	7F549	408.74	7F550	394.85	7F551v	416.61	7F552	401.80
	15700	13900	10400	8400	625	1½	7F553	432.60	7F554†	407.96	7F555†	441.30	7F556	413.52
42"	13600	8200	—	—	350	1/2	7F557	468.35	7F558	473.44	7F559v	484.09	7F560	480.39
	15800	10600	6800	—	400	3/4	7F561	474.92	7F562	478.82	7F563v	495.75	7F564	485.57
	16800	13400	8500	4800	430	1	7F565	496.18	7F566	482.29	7F567v	504.05	7F568	489.24
	19300	16500	11700	8600	495	1½	7F569	509.13	7F570†	483.20	7F571†	516.54	7F572	488.76
	21200	19100	14300	11200	545	2	7F573	536.82	7F574†	496.54	7F575	630.42	7F576§	503.95

EXHAUST/INTAKE VENTILATORS COMPLETE WITH FAN, MOTOR & DRIVE

Blade Dia.	CFM AIR DELIVERY AT RPM SHOWN				Fan RPM	Motor HP 1725 RPM	Dripproof Capacitor Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V, 60 Hz		Totally Enclosed Capacitor Motor 115/230V, 60 Hz		Totally Enclosed 3-Phase Motor 230/460V, 60 Hz	
	Free Air	1/8" SP	1/4" SP	3/8" SP			Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.	Stock No.	Each Frt. Ppd.
36"	9360	7340	5720	4050	490	1/2	7F577	\$411.40	7F582	\$419.90	7F587	\$424.36	7F592	\$428.85
	10580	8910	7380	5940	575	3/4	7F578	414.89	7F583	424.83	7F588	435.78	7F593	431.78
	11700	10220	8690	7560	650	1	7F579	436.98	7F584	423.09	7F589v	444.85	7F594	430.04
	13140	11930	10490	9450	765	1½	7F580	462.89	7F585†	435.11	7F590†	470.30	7F595	440.67
	14490	13410	12150	10800	830	2	7F581	490.47	7F586†	450.19	7F591	581.77	7F596§	457.60

(* 115V, 60 Hz, split phase motor. (§) 230/460V, 60 Hz only. (†) 208-220/440V, 60 Hz motor.
(†) Capacitor start, capacitor run motor. (v) Automatic reset thermal protection.

DAMPERS FOR INTAKE & EXHAUST/INTAKE VENTS



Dayton
\$112.40
30" Damper

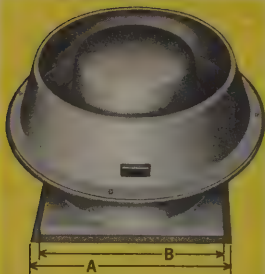
With Motor & 115, 208-240V/24V Transformer

Heavy-duty, extruded aluminum construction. Center-pivot vanes with tie rod linkage assure dependable service. Frame is 2" D with 1½" flange. Ample ½" dia. mounting holes. Motor mounting bracket extends 9¼" from mounting flange. Has 115, 208-240V/24V transformer for single or 3-phase circuits.

For Fan Dia.	Stock No.	Retail	Each	Shpg. Wt.
30"	3C234	\$168.60	\$112.40	35
36"	3C131	195.45	130.29	44
42"	3C235	235.00	156.66	54

DIRECT-DRIVE HIGH TEMPERATURE VENTILATORS

9 $\frac{3}{4}$ ", 12 $\frac{1}{2}$ " & 13 $\frac{1}{2}$ " Centrifugal Wheels. For Wall or Roof
Highly Suited for Exhausting Commercial Cooking Equipment
Handles Temperatures up to 200°F. Ball Bearing Motors



See Table for Dimensions

Dayton

\$138.75

No. 4C398

Ventilator directs air discharge away from the wall in a full 360° pattern or disperses the air vertically when mounted on the roof; prevents dirt accumulation on wall or roof in accordance with the recommendations of NFPA Bulletin No. 96. All units have 115V, 60 Hz, 1725/1140 RPM, 2-speed motors featuring high-heat class B insulation, full ball bearing construction and automatic-reset thermal protection. Motors located out of the air stream. Spun aluminum housing with bird screen. For detailed description of adjustable roof mounting curbs see Index under Curbs, Roof. Air deliveries based on standard test codes of AMCA. UL listed.

These compact ventilators are widely used in small ventilating systems in stores, offices, classrooms, restaurants, etc., where ambient temperatures do not exceed 200°F. Motor compartment is cooled by outside air thus reducing under-dome temperatures for longer motor life. Also ideal for spot ventilating applications.

VENTILATORS WITH 1725/1140 RPM, 115V, 60 Hz MOTOR

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN							Split Phase Motor		Stock No.	Each	Shpg. Wt.
	Free Air	1/4" SP	3/8" SP	1/2" SP	3/4" SP	1" SP		RPM	HP			
9 $\frac{3}{4}$ "	810 530	630 250	540 —	445 —	245 —	—		1725 1140	1/12 1/36	4C398	\$138.75	30
12 $\frac{1}{2}$ "	1900 1235	1700 890	1590 670	1470 400	1205 —	920 —		1725 1140	1/3 1/9	4C399	188.63	48
13 $\frac{1}{2}$ "	2260 1475	2050 1105	1930 875	1800 600	1520 —	1220 —		1725 1140	1/2 1/6	4C400	210.34	58

VENTILATOR DIMENSIONS

Wheel Dia.	Stock No.	Overall Dia.	Overall H	Wall Flange Outside Sq. A	Roof Flange Inside Sq. B	Recommended Stock No.	Roof Mounting Each	Curb Shpg. Wt.
9 $\frac{3}{4}$ "	4C398	24"	14 $\frac{1}{8}$ "	19 $\frac{1}{4}$ "	17 $\frac{1}{2}$ "	4C453	\$49.75	29
12 $\frac{1}{2}$ "	4C399	28 $\frac{3}{4}$ "	18	22 $\frac{1}{4}$ "	20 $\frac{1}{2}$ "	4C453	49.75	29
13 $\frac{1}{2}$ "	4C400	28 $\frac{3}{4}$ "	18	22 $\frac{1}{4}$ "	20 $\frac{1}{2}$ "	4C453	49.75	29

RAINPROOF DISCONNECT SWITCH

For Outdoor Lighting, Air Conditioners, Pumps, Etc.

Dayton non-fusible, pullout disconnect switch in NEMA 3R outdoor rainproof enclosure—a must where NEC code requires disconnect switch within sight of air conditioning equipment, pumps, lighting and other installations. Rated 60 amps, 120/240VAC, single phase, 2 or 3 wire, for up to 10 HP motors. Enclosure can be padlocked. Overall dimensions: 10 $\frac{1}{2}$ " H x 6 $\frac{1}{2}$ " W x 4" D. Gray finish. UL listed. Dayton brand. Shpg. wt. 7 lbs.

No. 5X672. Dayton Rainproof Disconnect Switch. Ret. \$24.50. Each, \$12.35

\$12.35



ALL STEEL WORK/MACHINE STANDS

16-Gauge Steel Top. Adjustable Height Range. Hold up to 500 Lbs.



1W972
\$23.12
Lots 3

Adjustable
Legs

All steel constructed stands provide additional work and storage space around production machines and other equipment and are equally suited for use as machine stands. Hold evenly distributed loads up to 500 lbs. Stands have 16-gauge steel top, interlocking heavy-gauge channel frames and formed steel legs. Footplate on bottom of legs prevent cutting floor surface and allow legs to be bolted to floor, can easily be moved when required. Units available in 18 x 24" and 24 x 36" top sizes with either 18 to 24-inch or 24 to 36-inch adjustable legs. Legs adjust on 2" increments. Gray enamel finish. Units shipped disassembled, assemble with ordinary hand tools. Edsal brand.

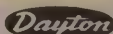
Top Size	Height Range	Stock No.	Retail	Each	Lots 3	Shpg. Wt.
18 x 24"	18-24"	1W972	\$30.42	\$24.64	\$23.12	23
18 x 24	30-36	1W973	33.12	26.83	25.17	26
24 x 36	18-24	1W974	41.53	33.64	31.56	32
24 x 36	30-36	1W975	44.36	35.93	33.71	35

BELT-DRIVE HIGH TEMPERATURE VENTILATORS

20, 24½ & 30" Centrifugal Wheels. For Roof Mounting. Cooled Motor Compartment
Handles Ambient Temperatures up to 250°F. Discharges Vertically, Away from Roof Surface

\$323.94

20" Less Motor & Drive



Efficient, compact ventilators designed for severe service as encountered in commercial kitchens. Widely used for exhausting smoke and hot, grease-laden vapors produced by grilles and ovens in restaurants, fast food chains, etc. Also suitable for other applications exhausting ambient temperatures up to 250°F. Constructed to comply with upblast discharge requirements specified in NFPA Bulletin No. 96. Units direct air stream vertically, away from roof, and are made of durable, rust-proof, easy-to-clean aluminum. Rated for continuous duty operation. Motor compartment is protected by asbestos shield and is cooled by outside air, thus reducing under-dome temperatures for longer motor and drive life. Discharge air never contacts motor.

Air deliveries listed are based on standard test codes of AMCA. Backward inclined aluminum wheels are belt driven and wheel shaft rides in permanently lubricated, ball bearing pillow blocks. Backdraft damper not included. All components easily accessible. Ventilators available less motor or with choice of ball bearing, 1725 RPM single or 3-phase motors. Motor and drive packed separately when ventilator is ordered complete. Request Bulletin 606. For detailed description of adjustable roof mounting curbs see Index under Curbs, Roof.



VENTILATORS LESS MOTOR & DRIVE

Wheel Dia.	Overall Dia.	H	Mtg. Flange Inside Sq.	Stock No.	Each	Shpg. Wt.	Recommended Stock No.	Roof Mounting Each	Curb Shpg. Wt.
20"	37½"	27"	28½"	3C276	\$323.94	86	4C454	\$63.75	40
24½"	51	31½"	39½"	3C277	410.42	163	4C455	80.95	57
30"	59	36	41½"	3C278	508.28	258	4C455	80.95	57

VENTILATORS WITH 1725 RPM, BALL BEARING DAYTON MOTOR & DRIVE

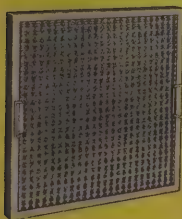
Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN						(*) Sound Rating	Fan RPM	Motor HP 1725 RPM	VENTILATOR WITH MOTOR & DRIVE			
	Free Air	1/4" SP	1/2" SP	3/4" SP	1" SP	1½" SP				Capacitor Motor 115/208-230V, 60 Hz Stock No.	Each	3-Phase Motor 230/460V, 60 Hz Stock No.	Each
20"	3205	2585	2140	1260	—	—	A	670	1/3	7C696	\$378.66	7C697	\$378.66
	3680	3160	2870	2435	—	—	A	770	1/2	7C698	386.65	7C705	384.33
	4205	3750	3510	3255	2390	—	B	880	3/4	7C706	399.15	7C707	390.35
	4735	4305	4130	3905	3370	2490	B	990	1	7C716	406.71	7C730	393.75
	—	—	—	—	—	—	—	—	—	—	—	—	—
24½"	4860	4005	3555	—	—	—	A	540	1/2	7C731	474.84	7C732	472.52
	5570	4880	4465	4060	—	—	A	620	3/4	7C733	487.94	7C734	479.14
	6165	5590	5160	4845	3735	—	B	685	1	7C735	494.88	7C736	481.92
	7020	6550	6210	5840	5240	4045	B	780	1½	7C737	537.68	7C738(†)	511.75
	7695	7285	7010	6650	6105	5440	B	855	2	—	—	7C739(†)	518.72
30"	7975	6555	5585	4480	—	—	A	495	3/4	7C740	590.31	7C761	581.51
	8780	7510	6770	5710	1495	—	B	545	1	7C762	593.41	7C763	580.45
	10070	8955	8395	7725	5980	—	B	625	1½	7C764	640.34	7C850(†)	614.41
	11120	10115	9615	9075	7635	6035	C	690	2	—	—	7C851(†)	622.51
	12730	11875	11405	10980	9990	8630	C	790	3	—	—	7C859	648.97

(*) Sound Rating Key: A=Moderately quiet—for offices, schools, churches. B=Average quiet—for restaurants, stores, etc. C=Commercial—for factories, warehouses. (†) 208-220/440V, 60 Hz motor.

STEEL GREASE FILTERS FOR EXHAUST SYSTEMS

2" Thick. Zinc Coated Steel Mesh. Permanent, Easily Cleaned

\$6.00 Highly efficient, all-steel grease filters for commercial-type kitchens in restaurants, hospitals, hotels, schools, etc. Keeps exhaust systems free of grease and dirt, reduces fire hazard, maintains kitchen cleanliness. Heavy-duty, bright-finish construction with one-piece, double-side frames and mitred corners. Expanded steel, corrugated filter mesh cleans easily, has slow resistance rise, offers greater efficiency than similar filters. Drain holes provided. Available with snap-in bail handles listed below. Evans brand.



SHOWN WITH OPTIONAL SNAP-IN BAIL HANDLES

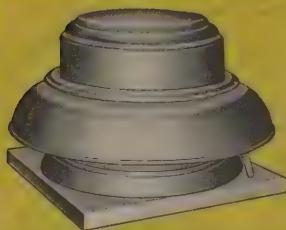
Nominal Size	Actual Size	Stock No.	Retail	Each	Lots 6	Shpg. Wt.
10x20x2"	9½x19½x1½"	4C405	\$10.47	\$6.98	\$6.00	3½"
16x20x2"	15½x19½x1½"	4C406	12.54	8.36	7.18	4½"
16x25x2"	15½x24½x1½"	4C407	13.74	9.16	7.87	6"
20x20x2"	19½x19½x1½"	4C408	13.74	9.16	7.87	5½"
20x25x2"	19½x24½x1½"	4C409	15.51	10.34	8.89	7½"

SNAP-IN BAIL HANDLES FOR ABOVE FILTERS. No. 4C410, 1 PAIR. Retail \$2.20. Pair \$1.29; Ctn. 12 Pr. \$1.21 Pair

SEE WARRANTY INFORMATION ON PAGE 684

24 & 30" HEAVY-DUTY AXIAL ROOF VENTILATORS

4-Wing Steel Fan Blades. Industrial Type. Belt-Drive
Aluminum Housing and Shutter. Built-In Bird Screen



Dayton

\$340.08

No. 3C129

The high efficiency, modern exhausters for roof installation. Axial type with belt drive. Unusually quiet because fan and motor operate outside of building (performance data below). Motor is mounted outside of air stream. Ball bearing drive shaft, cast iron drive. Housing formed of long-life aluminum with unique, built-in bird screen. Aluminum backdraft damper is 5" deep with 1" flange. Heavy-duty construction throughout. Dayton ball bearing motor and drive packed separately when ventilator is ordered complete. Air deliveries are based on standard test codes of AMCA. For detailed description of adjustable roof mounting curbs see Index under Curbs, Roof. Request Bulletin 606.

AXIAL ROOF VENTILATORS LESS MOTOR

Blade Dia.	Overall Dia.	H	Mtg. Flange Inside Sq.	Shutter Overall Sq. Less Flange	Stock No.	Each	Shpg. Wt.	Recommended Roof Stock No.	Mtg. Curb Each	Shpg. Wt.
24"	40"	24"	32"	27 1/2"	3C129	\$340.08	87	4C454	\$63.75	40
30"	48	34 1/2	40 1/2	35 1/2	3C130	537.66	137	4C455	80.95	57

AXIAL ROOF VENTILATORS COMPLETE WITH BALL BEARING MOTOR & DRIVE

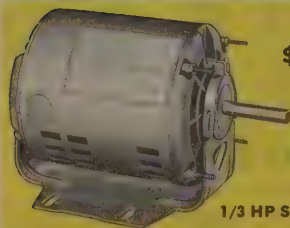
Blade Dia.	CFM Air Delivery at RPM Shown					Fan RPM	Motor HP	Dripproof Single Phase Motor 115/230V, 60 Hz		Dripproof 3-Phase Motor 230/460V, 60 Hz	
	Free Air	1/8" SP	1/4" SP	3/8" SP	1/2" SP			Stock No.	Each	Stock No.	Each
24"	3550	3090	2550	2100	1600	780	1/2	7C563	\$394.59	7C569	\$399.68
	4300	3900	3525	3135	2785	945	3/4	7C570	403.04	7C571	406.74
	4725	4325	3950	3700	3350	1035	1	7C572	425.05	7C573	411.16
30"	5150	4320	3370	2370	1600	710	3/4	7C574	613.59	7C575	617.29
	5800	5150	4550	3700	2900	830	1	7C576	632.67	7C577	618.78
	6750	6050	5350	4775	4150	960	1 1/2	7C578	649.33	7C579(*)	627.10
	9100	8400	7650	7000	6350	1115	2	7C580	673.06	7C581(*)	632.78

(*) 208/220/440V, 60 Hz motor.

GE 1/4 TO 1 HP SERV-S-LINE® MOTORS

1725 RPM, 115/230V, 60 Hz. Automatic-Reset Thermal Protection

Split Phase and Capacitor-Start Types



\$32.38

1/4 HP



1/3 HP Shown

Designed and built by General Electric for commercial and industrial applications such as fans, blowers, centrifugal pumps and similar jobs requiring moderate starting torque. Service factors meet NEMA standards for general-purpose motors.

1/4 to 1/2 HP, split phase, 3/4 and 1 HP capacitor-start types. 1725 RPM, 115/230V, 60 Hz, 1.35 or 1.25 service factor (60°C rise); also operable on 200V, 60 Hz at 1.0 service factor (70°C rise). Ball bearings, resilient base, open, dripproof construction. 40°C ambient, Class B insulation, continuous duty. Automatic-reset thermal protection. Extended thru-bolts. Rotation reversed by electrical reconnection. Gray. Recognized by UL for construction under the Motor Component Recognition Program. GE brand.

HP	RPM	Service Factor	NEMA Frame	Shaft Dia.	Long	Full-Load Amps at 115V	GE Model	Stock No.	Retail	Each	Shpg. Wt.
SPLIT PHASE MOTORS—1725 RPM, 115/230V, 60 Hz											
1/4	1725	1.35	48Z	1/2"	2 1/4"	5.2	5KH33FN15T	6K555	\$48.00	\$32.38	15
1/3	1725	1.35	56Z*	1/2"	2 1/4"	6.0	5KH35JN30T	6K560	54.75	36.94	18
1/2	1725	1.25	56Z*	1/2"	2 1/4"	9.0	5KH36MN22T	6K561	74.25	50.09	22

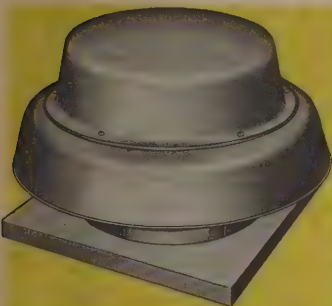
CAPACITOR-START MOTORS—1725 RPM, 115/230V, 60 Hz

3/4	1725	1.25	56Z	5/8"	2 1/4"	11.6	5KC39UN7T	6K563	111.75	75.39	30
1	1725	1.25	56Z	5/8"	2 1/4"	14.4	5KC48TG726T	6K767	123.00	82.98	35

(*) Supplied with 5/8" shaft adapter and key.

18 to 48" WALL/ROOF-MOUNTED VENTILATORS

Air Deliveries Based on Standard Test Codes of AMCA. Motor Outside of Air Stream
Belt-Driven Centrifugal Wheels. Deliver up to 32,995 CFM. Shutter and Bird Screen



Dayton

\$305.00

18" Less Motor

units can be wall or roof mounted. 24½" thru 48" units are for roof mounting only. All units have aluminum backward inclined wheels, belt-driven on ball bearing drive shaft. Motors are mounted outside of air stream. Outside mounting keeps noise level at a minimum. See sound rating table below. Spun aluminum housing with built-in bird screen. 18 & 22" ventilators include aluminum backdraft damper, 5" deep with 1" flange; backdraft damper on all other units has no flange. Choice of 1725 RPM, single and 3-phase, ball bearing motors and drive. Motor and drive packed separately when ventilator is ordered complete. For detailed description of roof mounting curbs see Index under Curbs, Roof.

Prepaid Freight on Shipments of 300 Lbs. and Over

VENTILATORS LESS MOTOR & DRIVE

Wheel Dia.	Overall Dia.	Overall H	Damper Overall Sq.	Mounting Flange Inside Sq.	Stock No.	Each	Shpg. Wt.	Recommended Stock No.	Roof Mounting Curb Each	Shpg. Wt.
18"	34"	23¼"	20¾"	26"	3C054	\$305.00	64	4C454	\$63.75	40
22"	40	24	26½"	32	3C033	391.02	88	4C454	63.75	40
24½"	38	29	22½"	31	3C271	359.68	122	4C454	63.75	40
30"	46	33	27½"	36½"	3C272	435.08	179	4C455	80.95	57
36"	55	38	35½"	44½"	3C273	590.92	420	4C455	80.95	57
48"	73	46	49½"	59	3C274	1153.43	800	3C216	98.50	64

VENTILATORS WITH 1725 RPM, BALL BEARING DAYTON MOTOR & DRIVE

Wheel Dia.	CFM AIR DELIVERY AT RPM SHOWN						(*)	VENTILATOR WITH MOTOR & DRIVE					
	Free Air	1/8" SP	1/4" SP	1/2" SP	3/4" SP	1" SP		1725 RPM Fan RPM	1725 RPM HP	Single Phase Motor 115/230V, 60 Hz Stock No.	Single Phase Motor Each	3-Phase Motor 230/460V, 60 Hz Stock No.	3-Phase Motor Each
18"	2080	1920	1720	1185	—	—	A	850	1/4	7C170(†)	\$341.00	7C173(‡)	\$358.69
	2285	2140	1960	1565	960	—	B	935	1/3	7C171(†)	344.36	7C174	358.71
	2610	2480	2340	2000	1630	1020	C	1070	1/2	7C172	359.35	7C175	364.44
22"	2765	2250	1950	1420	—	—	A	640	1/4	7C021(†)	429.42	7C025(‡)	447.11
	3025	2660	2350	1875	—	—	B	700	1/3	7C022(†)	433.22	7C026	447.57
	3240	3000	2750	2200	1400	—	B	750	1/2	7C023	446.35	7C027	451.44
	3500	3300	3050	2550	1900	800	C	805	1/2	7C024	446.35	7C028	451.44
24½"	4955	4590	4145	2725	—	—	A	580	1/2	7C305	423.23	7C306	420.91
	5595	5280	4910	3875	—	—	A	655	3/4	7C307	436.33	7C308	427.53
	6190	5910	5590	4795	3635	—	B	725	1	7C309	443.29	7C310(‡)	430.33
	7045	6800	6540	5535	3965	—	B	825	1½	7C311	486.94	7C312(‡)	461.01
	7645	7420	7185	6320	5060	—	B	895	2	—	—	7C693(‡)	469.51
30"	8545	7925	7165	5405	—	—	A	515	1	7C315	520.21	7C316(‡)	507.25
	9710	9130	8525	7155	5195	—	B	585	1½	7C317	567.14	7C318(‡)	541.21
	10705	10190	9635	8455	7095	4260	B	645	2	—	—	7C320	549.31
	12365	11925	11475	10465	9365	8195	C	745	3	—	—	7C694	575.77
36"	12075	11175	10270	7935	—	—	A	425	1½	7C323	703.99	7C324(‡)	678.06
	13210	12390	11565	9745	4585	—	B	465	2	—	—	7C330(‡)	710.60
	15200	14480	13760	12305	10425	4815	B	535	3	—	—	7C332	739.75
	17475	16840	16225	14980	13675	11910	C	615	5	—	—	7C695	755.07
48"	22110	20515	18655	13830	—	—	A	315	3	—	—	7C482	1306.77
	26325	25010	23560	19895	15995	—	B	375	5	—	—	7C484	1322.03
	29835	28690	27470	24555	20860	17615	C	425	7½	—	—	7C486	1377.19
	32995	31970	30865	28480	25430	21970	C	470	10	—	—	7C488	1413.28

(*) Sound Rating Key: A = Moderately quiet—for offices, schools, churches. B = Average quiet—for restaurants, stores, etc. C = Commercial—for factories, warehouses. (†) 115V, 60 Hz, split-phase motor.
(‡) 208-220/440V, 60 Hz 3 phase motor.

VISIT GRAINGER'S—SEE THE LARGE STOCKS—MEET OUR PEOPLE

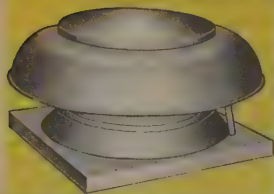
You'll like what you see at Grainger's—the large, well-kept stock—the well-informed men and women who serve you.



So, the next time you need something, come in and see how well we are set up to give you quick, competent service.

SEE WARRANTY INFORMATION ON PAGE 684

10 to 18" WALL OR ROOF VENTILATORS



Single and 2-Speed, Axial-Flow Units. Direct-Drive
Quiet Performance. Aluminum Construction

Dayton

\$89.25

No. 2C912

Exhaust room air quietly and effectively because fan and motor are on outside of building. Mounts in wall or roof positions. Built-in bird screen. Has aluminum backdraft shutter, 5" deep with 1" flange. Aluminum fan blade driven by 115V, 60 Hz, totally enclosed, shaded pole or permanent split capacitor motors except 4C097 which has dripproof motor.

Two-speed units require DPST switch. No. 2X605. Performance ratings conform to test code of Texas Engr. Experiment Station. For detailed description of adjustable roof mounting curbs see Index under Curbs, Roof.

SINGLE-SPEED, 1500 & 1100 RPM, 115V, 60 Hz VENTILATORS

Fan Dia.	Free Air	CFM AIR DELIVERY					MOTOR DATA				Stock No.	Retail	Each	Shpg. Wt.
		0.1" SP	0.2" SP	0.3" SP	0.4" SP	0.5" SP	HP	RPM	Type	Frame				
10"	495	305	195	—	—	—	1/30	1500	S. Pole	T/E	2C912	\$148.50	\$89.25	16
12	940	825	635	425	185	—	1/10	1500	S. Pole	Open	4C097	214.25	128.75	21
14	1450	1220	960	835	660	440	1/6	1100	P. Split	T/E	2C913	332.30	199.69	40
18	2460	2300	2100	1860	1570	1300	1/3	1100	P. Split	T/E	2C960	428.95	257.80	57

TWO-SPEED, 1100/800 RPM, 115V, 60 Hz VENTILATORS

14"	1450 970	1220 820	960 640	835 560	660 440	440 295	1/6	1100 800	P. Split	T/E	4C204	\$335.10	\$201.36	41
18"	2460 1640	2300 1540	2100 1400	1860 1240	1570 1050	1300 870	1/3	1100 800	P. Split	T/E	4C205	431.95	259.58	59

Fan Dia.	Stock No.	Overall Dia.	H	Mtg. Flange Inside Sq.	Shutter Overall Sq. Less Flange	Recommended Roof Mounting Curb Stock No.	Each	Shpg. Wt.
10"	2C912	18"	14"	16 1/4"	11 1/4"	4C453	\$49.75	29
12	4C097	21 1/2"	14"	18 1/4"	13"	4C453	49.75	29
14	2C913	27"	17"	21"	15 1/4"	4C453	49.75	29
14	4C204	27"	17"	21"	15 1/4"	4C453	49.75	29
18	2C960	34"	20"	26"	20 1/4"	4C454	63.75	40
18	4C205	34"	20"	26"	20 1/4"	4C454	63.75	40

EMPIRE 4 TO 24" ROTARY ROOF VENTILATORS

Exhausts Air Automatically. Slight Breeze Rotates Turbine. Outside Braced



\$9.12 Dependable, low cost, rotary roof ventilator exhausts air automatically, continuously and silently—no operating or maintenance cost. Slightest breeze over roof causes turbine to rotate and create a vacuum within turbine that is replaced by a strong upward draft of air, achieving a hot or cold exhaust. Ideal for sluggish chimneys and flues. Outside braced for strength, safety and perfect alignment. Precision built with lifetime bearings. Galvanized steel, aluminum painted.

strong upward draft of air, achieving a hot or cold exhaust. Ideal for sluggish chimneys and flues. Outside braced for strength, safety and perfect alignment. Precision built with lifetime bearings. Galvanized steel, aluminum painted.

Neck Dia.	CFM 4 Mi. Wind	Stock No.	Retail	Each	Shpg. Wt.
4"	126	4C016	\$13.70	\$9.12	6
6"	147	2C528	14.60	9.73	8
8"	255	2C529	15.75	10.51	12
10"	425	2C530	19.55	13.03	18
12"	631	2C531	21.70	14.47	16
14"	700	2C532	31.60	21.05	27
16"	950	2C533	45.20	30.12	30
18"	1200	2C534	55.30	36.85	34
20"	1700	2C802	73.05	48.71	41
24"	2350	2C803	104.95	69.99	64

ACCESSORIES FOR 12" ROTARY VENTILATOR ABOVE

\$6.35



A ADJUSTABLE BASE

For No. 2C531. Sturdy Galvanized Steel

A ADJUSTABLE BASE. Allows vertical mounting of ventilator on roofs from 0/12 to 8/12 pitch. 20 x 20" flashing, 5 lbs.

No. 4C505. Retail \$9.50. Each.....\$6.35

B AUTOMATIC DAMPER. Begins opening at 80°F and is fully open at 100°F. Closes fully at 75°F preventing heat loss in cold weather while eliminating necessity of covering turbine. Red indicator pins show damper position. Shpg. wt. 6 lbs.

No. 4C506. Retail \$16.90. Each.....\$11.27

\$11.27



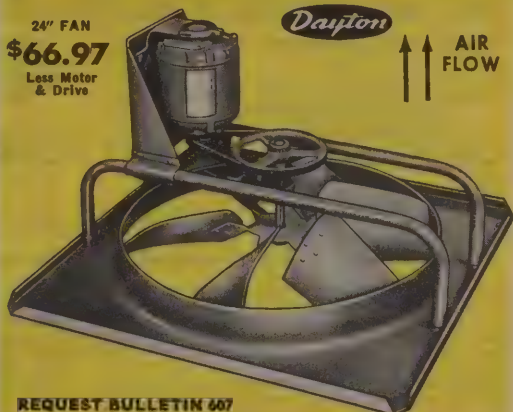
B AUTOMATIC DAMPER

RESIDENTIAL CEILING-MOUNTED EXHAUST FANS

24 to 36" Fan Blades. 1 or 2-Speed Motors. For Attic Installation. Ball Bearings
Up to 12,650 CFM. Air Deliveries Based on Standard Test Codes of AMCA

Installed horizontally on attic floor. Cools home by 15° to 25°F when run a few hours at night. Unique 6-wing, balanced fan blade affords maximum air delivery at low static pressures while minimizing motor overloading at higher static pressures. Noise level is low because fan is operated at lower RPM. Air deliveries are based on independent tests conducted by the Texas Engineering Experiment Station at Texas A&M University, in accordance with the Standard Test Codes of AMCA.

Deep-rolled steel venturi frame has welded tubular supports with heavy gauge steel, adjustable motor base for ample belt alignment. Motor base has ample mounting holes. Rubber mounted pillow blocks are ball bearing. 1" dia. fan blade shaft. Proper Dayton motor and appropriate drives packed separately when fan is ordered complete; when 2-speed fan is ordered, also order No. 2X605 2-speed wall switch or No. 2E089 12 Hr. timer with built-in 2-speed switch; see listing below. Dark gray finish. Automatic shutter, listed below, is recommended for most installations.



REQUEST BULLETIN 607

Blade Dia.	CFM AIR DELIVERY					FAN LESS MOTOR & DRIVE				FAN WITH MOTOR AND DRIVE			
	Free Air	1/8" SP	Fan RPM	HP	Less Mtr. Sq. H	Stock No.	Retail	Each	Shpg. Wt.	1-Speed Motor (*)		2-Speed Motor (†)	
										Stock No.	Each	Stock No.	Each
24"	5400	4500	675	1/4	30" 20 1/2"	3C152	\$111.85	\$66.97	40	7F234	\$102.21	7F235	\$108.87
	8000	5200	740	1/3	30" 20 1/2"	3C152	111.85	66.97	40	7F238	109.48	7F237	113.63
30"	7100	4650	445	1/4	36 19 1/8"	3C153	129.65	77.62	48	7F238	113.94	7F239	120.60
	7550	6150	485	1/3	36 19 1/8"	3C153	129.65	77.62	48	7F240	124.51	7F241	128.68
	8900	7650	560	1/2	36 19 1/8"	3C153	129.65	77.62	48	7F242	139.19	7F243	138.26
36"	9650	5800	380	1/3	42 19 1/8"	3C154	144.50	88.52	58	7F244	129.71	7F245	133.88
	11050	7200	440	1/2	42 19 1/8"	3C154	144.50	88.52	58	7F246	150.00	7F247	149.07
	12650	9400	500	3/4	42 19 1/8"	3C154	144.50	88.52	58	7F248	154.57	7F249	181.89

(*) Single speed motors are 1/4 & 1/3 HP are 115V, 60 Hz, resilient mount, ball bearing, split phase; 1/2 & 3/4 HP are 115/230V, 60 Hz, capacitor, ball bearing. 1/2 HP is resilient mount; 3/4 HP is rigid mount.

(†) 2-Speed motors are 1725/1140 RPM, 115V, 60 Hz, resilient mount, split phase, sleeve bearing, except 3/4 HP which is 115V, 60Hz, rigid mounted, capacitor. Slow speed CFM is 1/3 less than high speed CFM indicated.

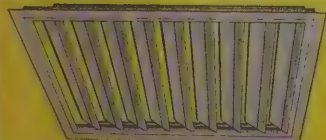
SPEED CONTROL AND TIMER FOR ABOVE RESIDENTIAL CEILING FANS

2-SPEED SWITCH. DPDT, Center Off flush-mount toggle switch with chrome wall plate. Fits std. 2 3/4" W x 4 1/2" H switch box. 3/4 HP, 15A at 125 VAC, 10A at 250 VAC. Wt. 5 oz.

No. 2X605. Retail \$5.16. Each \$3.61; lots 6....\$3.35

2-SPEED SWITCH WITH TIMER. Same as No. 2X605 switch except has 0-12 hour mechanical timer. 4 1/2" x 4 1/2" wall plate. Fits std. 4 x 4" switch box. Shpg. wt. 1 lb.

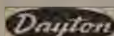
No. 2E089. Retail \$13.67. Each \$8.78; lots 6....\$8.54



No. 4C226

24 to 36" CEILING SHUTTERS

For Use with Above Attic Fans. White Enamel Finish



\$21.52

No. 4C224

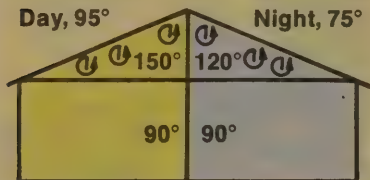
Attractive ceiling shutters install in ceiling opening below attic exhaust fan. Entire unit is finished in white acrylic enamel to blend with white ceiling finish. Aluminum vanes have felt edges for effective sealing when closed. A tie rod on inside of shutter assures uniform vane opening when fan is on, and vanes close automatically when fan is turned off. Vanes have anti-friction pivot pins for fast, minimum-load opening and closing action. Formed-aluminum shutter frame is 1 3/4" deep overall and has 1 3/8" wide mounting flange with ample mounting holes. Rectangular shutters listed are for use in narrow hallways to provide unrestricted air intake. Recommended for all attic fan installations.

Fan Blade Dia.	Opening Required	Overall Dimensions	Stock No.	Retail	Each	Shpg. Wt.
24"	24" x 24"	26" x 26"	4C224	\$32.30	\$21.52	8
30"	30 x 30	32 x 32	4C225	38.50	25.68	12
36"	36 x 36	38 x 38	4C228	47.60	31.72	17
24 or 30	28 x 32	30 x 34	4C226	38.45	25.62	12
30 or 36	32 x 40	34 x 42	4C227	47.50	31.66	16

COMPLETE LINE OF QUALITY VENTILATORS

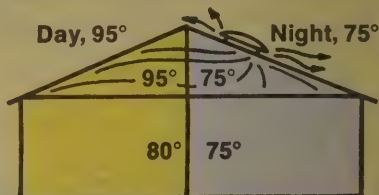
THE ADVANTAGES OF PROPER ATTIC SPACE VENTILATION

HOUSE WITHOUT PROPER VENTILATION



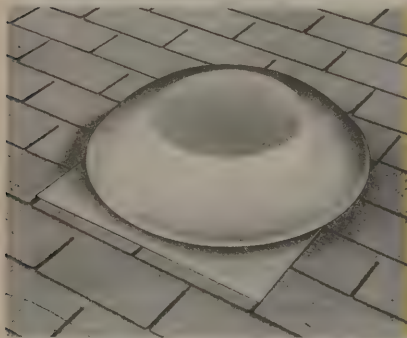
During hot weather, temperatures in the attic rise to 150°F and higher. Thus the air-conditioning system works overtime to cool the living area. The heat trapped in the attic penetrates down through the ceiling keeping the house warm even at night. This hot air should be released and the attic air temperature reduced as close as possible to the outdoor air tempera-

HOUSE WITH PROPER VENTILATION



ture. The efficient way to reduce attic air temperature is with one of the attic ventilators listed on this and facing page. They release the hot seal of attic air and reduce the attic air temperature to within 10 to 15° of the outdoor temperature. The result is a more comfortable living area and more efficient, less costly air conditioning.

POWERED AUTOMATIC ATTIC SPACE VENTILATORS



Dayton automatic power attic ventilators are designed to blend with the roof architecture of any home or apartment. Their attractive, low-profile appearance is practically unnoticeable whether roof is pitched or flat; ventilators are only 6½" high from flashing to top of dome. Three air deliveries are available and units can be used in multiples to achieve desired capacity. Air deliveries listed in table below are HVI certified ratings. Adjustable thermostat with 70° to 160° F range and 15°F differential is built into convenient junction box which is wired to motor with flexible conduit. Junction box has convenient mounting bracket.

Nos. 3C245 and 3C246 are of all-aluminum construction; No. 3C275 is constructed of hot-dipped galvanized steel with silver-tone baked enamel finish. Large self-flashing plate assures leak-proof installation when mounted properly. 3"

Dayton

\$59.50

No. 3C275



- HVI Certified Air Deliveries
- Choice of 1000, 1160 or 1720 CFM at 0.03" SP
- Greatly Reduce Air Conditioning Costs
- Low Profile Is Practically Unnoticeable
- Built-In, Adjustable Thermostat
- Rugged, Weatherproof Construction



deep venturi prevents rain or snow from entering attic, fine mesh perimeter screen keeps foreign objects out. All motors are 120V, 60 Hz, sleeve bearing with automatic-reset thermal protection. 1/15 HP motors are shaded pole; 1/5 HP motor is permanent split capacitor. Dayton power attic ventilators are easy to install. All installation procedures except electrical wiring are performed from the outside. Flashing is 27 x 27" for extra weather protection. Dome is 26" dia. x 6½" H overall.

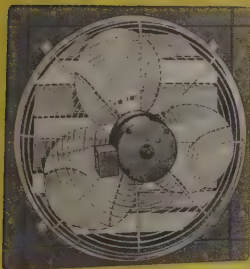
NOTE: Proper power attic ventilation requires provision for adequate outside air intake to attic area. This can be in the form of vents on underside of eaves, louvers on gable ends, etc. Intake vents should be as close to attic floor as possible. Minimum recommended intake areas are specified in table below; areas may be larger if desired. All units UL listed.

CFM @ 0.03" SP	Maximum Attic Area(*)	Min. Intake Area Req.	Motor HP	RPM	Blade Dia.	Wings	Amps	Stock No.	Retail	Each	Shpg. Wt.
1000	1430 Sq. Ft.	3.3 Sq. Ft.	1/15	1050	14"	4	2.2	3C275	\$89.20	\$59.50	22
1160	1660 Sq. Ft.	3.9 Sq. Ft.	1/15	1050	16	3	2.2	3C245	102.00	68.00	20
1720	2460 Sq. Ft.	5.7 Sq. Ft.	1/5	1050	16	4	3.1	3C246	126.90	84.60	25

(*) Maximum attic area for a single ventilator. For larger areas, use multiple ventilators to achieve desired capacity.

FOR REDUCING ATTIC AIR TEMPERATURES

16" AUTOMATIC ATTIC EXHAUST FANS



No. 7F667

Dayton

Comply with
OSHA
Requirements

\$33.66 No. 7F668

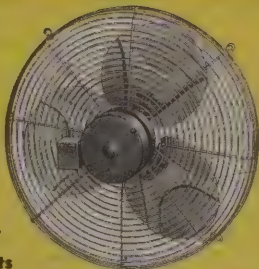
Includes Adjustable
90 to 130°F Thermostat

With or without Shutter

Totally Enclosed Dayton Motor

Guard Meets OSHA Requirements

Shipped Completely Assembled



No. 7F666

Comes mounted on automatic shutter, ready for fast, easy installation, or guard-mounted (less shutter) for installation with gable vents with built-in shutter, etc. Shutter model requires 17 x 17" opening. Guard model has 18 3/8" OC mounting loops. Fans include separate thermostat for automatic operation; 90° to 130°F range,

15°F fixed differential, mounts on 2 x 4" conduit box. Air deliveries are based on AMCA test codes for exhaust systems. Aluminum 3-wing blade powered by quiet, 1/20 HP, 1500 RPM, 1.9 amp, 115V 60 Hz totally enclosed motor. Shutter is tie-rod type. Fan unit is mounted on heavy, rigid wire guard, zinc lustron finish.

Fan Type	CFM AIR DELIVERY		Motor RPM HP		Full-Load Amps	Opening Required	Stock No.	Retail	Each	Shpg. Wt.
	Free Air	1/8" SP								
With Shutter	870	460	1500	1/20	1.9	17x17"	7F667	\$80.00	\$47.89	19
Less Shutter	960	510	1500	1/20	1.9	18 3/8" Dia.	7F666	56.25	33.66	14

EMPIRE 12" ROTARY ATTIC VENTILATOR

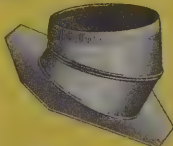
Exhausts Air Automatically. Slight Breeze Rotates Turbine. Outside Braced



A VENTILATOR ONLY
No. 2C531



B AUTOMATIC DAMPER
No. 4C506



C ADJUSTABLE BASE
No. 4C505



D COMPLETE SYSTEM
No. 7F665

Dependable, low cost, rotary roof ventilator exhausts air automatically, continuously and silently—no operating or maintenance cost. Available complete with automatic damper and adjustable mounting base. Slightest breeze over roof causes turbine to rotate and create a vacuum within turbine that is replaced by a strong upward draft of air, achieving exhaust. Outside braced for strength, safety and perfect alignment. Precision-built with lifetime bearings.

Turbine is galvanized steel, aluminum painted. Automatic damper begins opening at 80°F and is fully open at 100°F. Damper closes fully at 75°F preventing heat loss in cold weather while eliminating necessity of covering turbine. Red indicator pins show damper position. Adjustable mounting base adjusts for 0/12 to 8/12 pitch roofs. Has flashing for weatherproof installation. Damper and base are sturdy galvanized steel and aluminum.

Key Letter	Description	Dimensions High Flashing	Stock No.	Retail	Each	Shpg. Wt.
A	Rotary Ventilator Only	17"	2C531	\$21.70	\$14.47	16
B	Automatic Damper	8 3/4"	4C506	16.90	11.27	6
C	Adjustable Base	8 3/4" 20"x20"	4C505	9.50	6.35	5
D	Rotary Ventilator with Damper (B) & Base (C)	28 1/2" 20 x 20	7F665	53.60	32.09	27

(*) At 0/12 pitch.

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For

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SEE WARRANTY INFORMATION ON PAGE 684

INDEX

MotorBook 347

A

Abrasives	220
AC-DC Motors	47
Acetylene Torches	230, 231
Adding Machines, Electronic	287
Adhesives & Sealants	131
Adjustable Speed Drives	106-109
Adjustable Speed Motors	36
Air Cleaners, Electronic	546, 547

Air Compressors & Acces.

Aftercoolers	442
Air Line Parts	443, 446-451
Belt Guards	441
Belts	126, 127, 441
Complete Units	406-429
Conversion Kit	441
Dryers, Air	443
Motors	421
Pumps	433-440
Tanks	441, 444, 445

Air Conditioning

Accessories	154, 158, 554
	565, 566, 572-576
Central Components	556, 557
Central Units	555, 560, 561
Mobile Home	558, 559
Room Units	550-553, 558
Air Conditioner Motors	51-66
Air Conditioner Refrigerants	574
Air Control Valves	454
Air Cylinders	452
Air Filters	576
Air Switch	537
Air Tools & Acces.	447-463
Allen Wrenches	186
Alternators	401
Ammeters	156-158
Amplifier System	304, 305
Telephone	308
Antennas, CB Radio	313
TV & Acces.	314, 315

APPLIANCES

Air Conditioners	550-561
Clocks	299
Coffemaker	295
Dehumidifiers	548, 549
Heaters, Room	553, 580-588
Heaters, Water	508-511
Hot Plates	296
Humidifiers, Room	596
Ice Cube Maker	298
Ovens, Microwave	294, 295
Refrigerators	298
Vacuum Cleaners	297
Waste Disposers	513

Aquarium Pump	478
Arbors, Shaft	124
Arc Welders	226-228
Arm Chair, Office	286
Atk Exhaust Fans	657, 671, 682, 683
Auger, Earth	390
Automobile Heater Motor	47
Automotive Tune-Up Equipment	159
Auxiliary Lights	346

B

Bags, Paper	263
Household Vacuum	297
Plastic Trash	343
Shop Vacuum	257
Balancer, Tool	462
Ball Bearings	130
Ballasts, Fluorescent	356
Band Saws	208, 233, 240, 241
Barrel Pump	501
Barrel, Trash	343
Baseboard Heaters	581, 584, 585

Bases, Fan	633
Motor	32, 54, 632, 659
Pump Mounting	486, 487

Bathroom

Cabinets	374, 375
Fans	604-609
Heaters	588
Lights	354, 355, 374
Batteries, Flashlight	362
Special Purpose	362
Transistor Radio	362
Battery Chargers	330, 331
Battery Jumper Cables	321
Bearing Tool	117
Bearings, Ball	130
Pillow Blocks	118-121
Sleeves	117, 123
Belt Sanders	200, 208, 213, 236, 237
Belts, Drive	126, 127
Belts, Sanding	220
Bench, Folding Leg	293
Bench Legs	279, 280
Bench Vises	184, 185
Benchs, Work	273, 279, 280
Beverage Pumps	504
Bilge Pumps	490-492
Bin Carts	267
Bins, Stackable Storage	267
Bits, Drill	214-217
Bits, Screwdriver	192

Blades, Band Saw

Circular Saw	223
Fan	See "Fan Parts"
Hacksaw	178, 222
Jig Saw	222
Masonry	223
Reciprocating Saw	222
Sabre Saw	222
Snow	381
Blow Guns, Air	449
Blower Belts	126, 127

BLOWERS

Double-Inlet	618, 619, 628
Forced Air	259
Four-Speed	621
Furnace & Air Conditioner	617-621, 628
General Purpose	614, 617
Heating/Cooling	614, 617
High-Capacity	628
High-Volume	622, 623, 628, 629
Hot Air	201
In-Line	626
Material Handling	625
Motors for	22, 23, 33-68, 616
Non-Overloading	630, 631
Pressure	622-625, 629
Self-Cleaning Wheel	623-625
Shaded Pole	614, 617
Single-Inlet	622, 627
Universal Mount	618-621, 627, 628
Weather Covers for	631

Boxes, Corrugated	263, 271
Brakes, Mag. Disc	90, 94, 99

Brushes, Floor Care	259
Brushes, Motor	47, 96
Brushes, Wire	219, 224
Buffing Wheels	221
Buildings, Steel	376
Bulbs, Lamp	358, 359
Bump Protector Cap	249
Burrs, Grinding	462
Bushings & Tool	117, 123
Butane Tank & Torch	203

C

Cabinets

Bathroom	374, 375
File	269, 286
First Aid	246
Parts	268-272
Storage	268-273, 282-286
Tool	171, 172, 278, 281

Cables, Battery Jumper	321
Electrical	153
Intercom	306
Submersible Pump	464
Thermostat	153
Winch	322

Calculators, Electronic	288-291
Camper Pump	492
Cap, Bump Protector	249
Capacitor Motors	2-33, 38, 68
Capacitors, Elec. Mtr.	132, 133
Caps, Plug	148, 149
Car Wash Pumps	494
Carpet Shampoo	259
Carts, Tool	273, 277, 278
Cart, Yard & Garden	399
Cartons, Bin	267
Packing & Shipping	263
Storage	271

Casters	334-340
Ceiling Fans	611, 653
Cellar Drainers	474-476
Chain Hoists	316-319
Chains, Roller	128
Chain Saws	392-395
Chains, Skid	381
Chair Hand Truck	293
Chairs, Arm Office	286
Folding	293
Stack	293
Swivel Office	286

Chargers, Battery	330, 331
Check Valves, Air	433-438, 446

Water	470, 494
Chemical Feed Pumps	469
Chests, Tool	171
Chisels	183
Chisels, Air Hammer	459
Chlorinator	469

Chucks, Air Hose	449
Drill	215-218

Circuit Tester	129
Circulators, Air	636-651
Circulators, Water	478, 479
Citizen's Band Radios	309-312
Citizen's Band Tower Kit	314

Cleaners

Air, Electronic	547
Blower, Forced Air	259
Sprayer-Washer	261
Steam	260
Vacuum, Hand	258, 259
Household	258, 297
Outdoor	389
Shop	254-258, 262
Wet	255-257

Clocks	299
Clothes Washer, Dryer Motor	40, 46
Coach Lantern	367
Coffee Makers	295
Coils, Heater	111-113
Collars, Shaft	121

Columns & Bases, Fan	633
Compressed Air Sprayers	391
Compressors, Refrigeration	562-564

Compressors, Air & Acces.

Aftercoolers	442
Air Line Parts	443, 446-451
Belt Guards	441
Belts	126, 127, 441
Complete Units	406-429
Conversion Kit	441
Dryer, Air	443
Motors	421
Pumps	433-440
Tanks	441, 444, 445
Condensate Pumps	473
Condenser Fan Motor	51, 53, 57
Condensers	557
Conduit Boxes	9, 39
Connectors, Cord	148-151
Connectors, Wire	151, 152
Contactors, Line	573
Continuity Testers	129, 156-158

Controls

Dehumidifier	548
Electric Range	296
Fan	See "Fan Parts"
Fire Safety	530
Heating/Cooling	521-537
Humidifier	544
Motor	104, 105, 110-116, 137
Oil Burner	534
Pump	470
Relays	141, 142, 537
Speed	104, 105, 137, 218
Sprinkler	398, 517
Unloader	435, 436
Water Heater	510, 527, 531

Coolant Pumps

Cooler, Spray Mist	238
Water	299-303
Copper Float	470
Cord Sets	151, 154, 155
Cord, Test	151
Corrosion Inhibitors	161
Corrugated Boxes	263, 271
Counters, Mechanical	144, 145
& Electrical	144, 145
Counters, Steel	281

Couplings, Flexible	121
Hose	398, 449
PTO	495
Shaft	117
Covers, Motor	30, 87
Cover, Pump Pit	506
Crane, Portable	331
Stationary	331
Truck Mounted	331

Crimping Tool	151
Cube Tap	151
Cultivators, Garden	388, 397
Curbs, Roof	668
Cutting Tools	224
Cutting Torches	230, 231
Cylinders, Air	452

D

Dampers, Fan	654
Deep Well Pumps	464-467
Degreasing Solvent	161
Dehumidifiers	548, 549
Desk Lamps	360, 361
Desk, Office	286
Desk, Shop	273
Detergent	494
Dies, Threading	177
Digger, Post Hole	390
Dimmer Switch	129
Disc Brakes	90, 94, 99
Dispensing Pump, Gasoline	501

Disposers, Waste	513
Dissolvent, Lime Scale	544
Dollies, Drum	343
Dollies, Vacuum Cleaner	254
Door Openers, Garage	344, 345
Transmitters	344, 345
Double-Inlet Blowers	
	618, 619, 628
Drain Cleaner Kit	205
Drain Pumps	490, 491

Drill Attachments

Buffing	221
Chucks	215
Hole Saws	216, 217
Screwdriver	216, 224
Wire Brush Wheels	219
Drill Bits	214-217
Drill Chucks	215-218
Drill Drive Pump	503
Drill Presses	243-245
Drill Press Stands	216
Drill Press Vise	185
Drills, Elect.	
188-191, 205, 206, 210, 211	
Pneumatic	461, 462
Drive Tool & Pins	179, 181
Drives Adjustable Speed	
	106, 107, 109
Drop Cords	151-155
Drum Dollies	343
Dryers, Air Conditioning	
& Refrigeration	569-571
Duct Fans	657
Duct Tape	575
Dust Collector	262
Dust-Tight Motor	6
Dwell Tachometer	159

E

Ear Protector	249
Earth Auger	390
Electronic Air Cleaner	546, 547
Calculators	288-291
Speed Controls	
	96, 104, 105, 218
Elements, Heat Gun	201
Range	296
Water Heater	507
Embossing Tape & Tool	271
Emergency Light	346
Enamels, Spray Paint	160
Engine Drive Pumps	481-485
Engines, Gas	400
Generators	228, 403-405
Engraving Tools	202, 204
Evaporator Coils	556
Evaporator Fan Motors	55
Evaporator Pads	544, 545
Exhaust Fans	611, 656-683
Exhauster, Smoke & Fume	229
Exit Sign	346
Expansion Valves	565, 567
Explosion Proof Motors	9, 80
Explosion Proof Fans	656, 659
Extension Cords	151-155
Extinguishers, Fire	250, 251
Eye Protectors	247, 248

F

Face Shield	247
Fan Duty Motors	
	21-24, 31-70, 616

FREE FREIGHT ON 300 LBS. AND OVER

Unless otherwise
stated. See Policy
on p. 684 for
full details.

FANS

Attic Exhaust	
	657, 671, 682, 683
Bathroom	604-609
Ceiling	611, 653
Circulator	636-653
Duct	657
Exhaust	611, 656-683
Explosion-Proof	656, 659
Haddock	646
Heater Booster	657
Industrial	
	658-661, 666-683
Intake	675
Intake-Exhaust	646, 675
Kitchen	604-609
Kits	641-645, 650, 651
Man Cooler	637, 640-653
Mobile	636, 649
Oscillating	641-647, 650, 651
Pedestal	637-645, 650, 651
Poultry & Livestock	662, 663
Roof Ventilators	668, 675-683
Spray Booth	665
Suspension	
	632, 640, 643, 644, 651
Variable Speed	637, 641-643
Wall	604-609, 658-661
Wall/Ceiling	640, 645, 651
Window	646, 648

Fan Parts & Accessories

Bases & Columns	633
Bases, Motor	632, 659
Belts	126, 127

Blades

Cast Aluminum	666
General Purpose	635-637
High-Volume	639
Spray Booth	638

Controls

Reversing Switch	656
Thermostat	525, 526
3-Speed Switch	656
Time Switch	516-520
2-Speed Switch	520

Damper	654
Frames	658
Guards	634, 667

Mounting Brackets	632
Hardware	633, 634
Motor Straps	632

Oscillating Motor	634
OSHA Adapter	634
Pulleys	122-125
Roof Curbs	668
Shutters	654, 655

Farm Duty Motors	20, 44, 79
Fasteners	179, 181, 224
Fertilizer Spray Pump	495
Fiberglass Insulation	473, 598
File, Letter Size	286

Filter/Dryers, Air Conditioning	
& Refrigeration	569-571

Filters, Air Line	443, 450, 451
Air Conditioner	569-571, 576
Electronic Furnace	547
Furnace	576
Grease	576
Kitchen Exh. Fan	604, 610
Refrigeration	569-571
Respiratory Mask	248
Shop Vacuum	257
Water	512

Finishing Tools	224
Fire Extinguishers	250, 251
Fire Safety Control	530
Fire & Smoke Detector	521
Fireplace, Electric	581
First Aid Cabinets	246

Fittings, Pipe	471
Fixtures, Fluorescent	347-355
Flashlights & Batteries	
	362, 363

Flexible Couplings	121
Flexible Shafts	117
Float Switches	491, 505, 506
Floats, Copper	470
Food Lights	359, 365, 369
Floor Polisher Brushes	259
Floor Polisher, Industrial	259
Floor Sealer	262

Fluorescent Ballasts	356
Fixtures	347-355
Lamps	357
Safety Sleeves	357
Starters	354

Fogger, Insect	391
Folding Chairs	293

Food Service Equipment

	294, 295
Foot Switches	237
Foot Valves	470
Fountains, Water	299-303
4-Speed Blower	621
4-Speed Motors	49, 50, 56
Frames, Fan	658
Freon	574
Friction Tape	151
Fume Exhauster	229
Furnace Blowers	617-620, 628
Furnace Filters	576
Furnace Humidifiers	542, 543
Fuse Holder	30
Fusible Switch	113

G

Garage Door Openers	344, 345
Garbage Disposers	513

Garden Equipment & Tools

Garden Tractors	376-399
	377-379

Gas Heaters

Brooder	588
Console	599
Make-Up Air	594
Portable	577
Unit	590, 591, 595-597
Wall	598-601

Gas Leak Detector	158
Gasoline Dispensing Pump	501
Gauges, Pressure	448, 496
Gear Pullers	179
Gear Reducers	101
Gearmotors	85-99, 106-108
Gears, Motor	88
Generator Sets	228, 403-405
Gloves, Work	253
Goggles, Safety	247, 248
Grass Clipper	396
Grease Filters	576
Grille, Air Conditioner	552

Grinders

Bench	238, 239
Die	461
Pedestal	238
Portable	
	197-199, 204, 209, 461
Safety Shield	238

Grinding Burrs	462
Grinding Tools	224
Grinding Wheel Dresser	221
Grinding Wheels	198, 221
Grommets, Rubber	154
Ground Fault Interrupters	150
Grounds Maintenance	
Equipment	376-399
Guards, Drive Belt	441
Guards, Fan	634
Guards, Thermostat	537
Guards, Blow	449

INDEX

MotorBook 347

Guns, Heat	201
High-Pressure Water	498
Paint Spray	456, 457
Sand Blasting	458
Solder	202, 203

H

Hacksaw Blades	178, 222
Hacksaw Frame	178
Hacksaw, Power	242

Hammers, Air	459, 463
Ball Pen & Claw	176
Drill	191, 207
Drive Tool	179
Rotary	191, 207

Hand Grinding Tools	224
Hand Pumps	501
Hand Trucks	325, 327
Hand Truck, Chair	293
Hand Vacuums	258
Hand Wrenches	186, 187
Hard Hat	249
Haddock Fan	646
Hearing Protector	249
Heat Blower	201
Heat Booster Fan	657
Heat Controls	521-537
Heat Elements	507
Heat Guns	201
Heat Lamps	358
Heater Coils	111, 113

Heaters

Baseboard	581-585
Bathroom	588, 607
Brooder	588
Bulb	607
Electric	558, 580-587, 607
Floor Drop-In	584
Gas	See "Gas Heaters"
Immersion	510
Infrared	578, 579
	588, 589, 602, 607
Kerosene	579
LPG	579
Make-Up Air	594
Oil	577, 578
Portable	577-583, 602
Room	553, 558, 580-588
Unit	561, 589-597
Water	508-511

Hedge Trimmers	397
Helmet, Welders	248
Hex Wrench Sets	186
High-Capacity Blowers	626
High Intensity Discharge Bulbs	359
High Pressure Sodium Bulbs	359
High Pressure Sodium Fixtures	

	371
Hobby Tool Kits	204
Hoist Trolleys	318
Hoists	316-319
Hoods, Range	603
Hose, Air Line	447, 448
Clamp	471
Couplings	398, 449
Garden	398
High Pressure	498
Paint	447
Plastic	398, 471
Reels, Air	448
Reels, Water	399
Shop Vacuum	255, 262
Water	398, 478, 484
Welding	229
Hot Plate	296
Hot Water Circ. Pumps	478, 479

INDEX

MotorBook 347

Hot Water Heaters	508-511
Hot Water Pump Motor	24, 25
Humidifiers, Furnace	542, 543
Portable	545
Accessories	544, 545
Humidistat	544
Hydraulic Jacks	331-333

I

Ice Cube Makers	298
Ignition Transformer	535
Immersion Heater	510
Impact Wrenches	193, 460-463
In-Line Blower	626
Incandescent Light Bulbs	358
Incandescent Light Dimmers	129
Incandescent Light Fixtures	361, 364, 367

Industrial Fans	658-661, 666-683
Infrared Heaters	578, 579
588, 589, 602, 607	
Insecticide Fogger	391
Insecticide Pump	495
Insulating Enamel	161
Insulation, Thermal	473, 598
Intercoms	306-308
Interrupters, Ground Fault	150
Interval Timers	516-520

J

Jacks, Hydraulic	331-333
Jacks, Scissors	333
Jacks, Screw	333
Jet Pumps	466, 467
Jig Saws	195, 211
Jumpers, Battery	321

K

Kerosene Heater	579
Keyhole Saw Kit	178
Kitchen Fans	604-609
Kits, Radio/TV Tower	314
Kits, Steel Post	276

L

Label-Making Kit	271
Lacquer, Spray	161
Ladders	325
Laminate Trimmer	196
Lamp Cords	153

Lamps

Clamp-on	360, 361, 366
Desk	360, 361
Flood	359, 365, 369
Fluorescent	357
Heat	358
High Intensity Discharge	359
High Pressure Sodium	359
Incandescent	358
Machine/Pool	361
Mercury Vapor	359
Metal Halide	359
Quartz	359, 365

Lamps, Cont.

Reel	153
Reflector	366
Sewing Machine	71
Spot	359
Sun	358
Trouble	153
Tungsten Halogen	369
Work	361
Lantern, Coach	363
Lantern, Portable	363
Lantern, Post	367
Lantern, Wall	367
Laundry Equipment Motors	40, 46
Laundry Tray Pump	486

Lawn Edgers	396, 397
Mowers	377-380, 383-387
Seeder/Spreaders	381, 396
Sprinklers	398
Sweepers	381, 397
Tractors	377-379
Trimmers	396, 397

Legs, Bench	279, 280
Levels	176
Lift Truck	325
Light Bulbs	358
Light Dimmer	129

Lighting Fixtures

Accessories	371
Bathroom	354, 355, 374
Commercial	347-355, 367
Fluorescent	347-355
Household	354, 355, 364
Industrial	347-355, 367-371
Outdoor	364-369
Recess	352, 354, 364
Line Scale Dissolvent	544
Line Contactors	573
Lockers, Storage	283-285
Lubricant, Spray	161
Lubricators, Air Line	451

M

Machine/Tool Lamps	361
Magnetic Disc Brakes	
	90, 94, 99
Magnetic Drive Pump	490
Magnifier Lamps	360
Mallet, Rawhide	176
Mandrels	217, 221
Mask, Respiratory	248, 249
Masking Tape	185
Masonry Cut-Off Wheels	223
Masonry Drill Bits	215
Measuring Rules	175
Measuring Tapes	175
Mechanic Tool Sets	187
Megaphone	304
Mercury Vapor Bulbs	359
Mercury Vapor Fixtures	367-370
Metal Cutting Shears	169
Metal Halide Bulb	359
Metal Halide Fixture	370
Microwave Ovens	294, 295
Miter Box, Power	233
Mobile Chair Truck	293
Mobile Fans	635, 638

MOTORS

AC-DC	47
-------	----

Capacitor Start

Enclosed 6-10	13-20, 29, 44
Fractional HP	
2-24, 29, 33, 38, 44	
Integral HP	2, 14, 18-21, 38
Open	2-15, 18-24, 33, 38

MOTORS, Cont.

D-C	47, 105, 616
Permanent Split Capacitor	28, 36-38, 49-63, 68

Shaded Pole

Fan Duty, Enclosed	64-66, 70
Fan Duty, Open	49-68, 616
General-Purpose	64, 65
General-Purpose TE/FC	70

Split Phase

Enclosed	9, 34-36, 44, 45
Open	10, 19-25, 31-46

Three Phase

Enclosed	29, 73-84
Fractional HP	73, 74, 78
Integral HP	73-84
Open	73-84

Special Types

Adjustable Speed	36, 104-108
Air Conditioner	51-60, 63, 66
Auto. Heater	47
Blower	22, 23, 33-67, 616
Brake-Type	90, 94, 99
Clothes Dryer	40, 46
Compressor Duty	421
Condenser Fan	51, 53, 57
Dishwasher	45
Dust-Tight	8
Evaporator Fan	55
Explosion Proof	9, 80
Fan Duty	21-24, 31-70, 616
Farm Duty	20, 44, 79
50 Hertz	13, 41
Flange Mount	8, 9, 23-29, 39, 40, 43, 78
4-Speed Blower	49, 50, 56
Gearmotors	85-99, 106-108
High-Slip	84
Instant Reversing	9
Laundry Equipment	40, 46
Moisture-Resistant	37, 43
Oil Burner	23, 39, 40, 43
Permanent Magnet	105
Poultry Fan	35
Power Tool	5, 7, 10, 11
Pump, Carbonator	29, 44
Centrifugal	26, 27
Hot Water Circ.	24, 25
Jet	26-29
Recirculating	68
Sump	23, 30, 31
Swim Pool	28
Refrigeration	55, 57
Reversible	55
Sewing Machine	34, 47, 71
Shutter	654, 655
Skeleton-Type	55, 62
Stoker Duty	14
3-Speed	49-63
2-Shaft	5, 10-14
41, 51-59, 63, 66, 67	
22, 33-38	
51, 52, 55, 57, 63-68	
Unit Bearing	54, 55, 62
Universal	47
Vacuum	72
Vibrator	69
Washing Machine	46
Yoke-Mounted	36, 44

Motor Parts & Accessories

Armature	96
Bases	32, 54, 632, 659
Bearings, Ball	130
Bearings, Sleeve	117
Brakes, Mag. Disc	90, 94, 99
Brushes	47, 96
Capacitors	132, 133
Conduit Boxes	9, 39
Controllers, Speed	96, 104, 105

Motor Parts & Access., Cont.

Controls	104, 105, 110-116, 137
Covers	30, 87
Fuse Holder	30
Gears	88
Heater Coils	113
Insulating Enamel	161
Insulating Varnish	161
Mounting Hardware	633
Mounting Latches	117
Mounts, Blower Motor	48
Rails	32
Relays	115
Renewal Parts	117, 136, 137, 148, 149
Reversing Switches	137
Rings	48, 58, 117
Rotating Switches	136, 137
Rubber Mounting	32, 670
Shaft Adapter	54
Speed Controllers	96, 104, 105
Starters	114, 116
Stationary Switches	136, 137
Switch Mounting Box	129
Thru-Bolts	634
Mowers, Lawn	377-387

N

Nipples	398, 480
Non-Overloading Blower	
	630, 631
Nozzles, Shop Vacuum	262
High Pressure	472, 498
Nut Drivers	168, 179

O

Office Furniture	286
Ohmmeters	156-158
Oil Burner Control	534
Oil Burner Motors	23, 39, 40, 43
Oil Penetrating	161
Oscillating Fan	
	641-647, 650, 651
Outlet Receptacle, GFI	150
Ovens, Microwave	294, 295
Oxy-Acetylene Welders	230, 231

P

P.A. System	304, 305
Packing Cartons	263
Packing List Envelope	263
Packing, Sealant	473
Paint Arrestor Pads	638
Paint Guns & Sprayers	456, 457
Paint Hose	447
Paint Tank	457
Paints, Spray	160
Pallet Truck, Hand	324
Paper Bags	263
Paper Padding	263
Paper Wrapping	263
Parts Cabinets	268-272
Parts Tray	270
Pedestal Fans	
	637-645, 650, 651
Pedestal, Tool	238
Penetrating Oil	161
Photo-Electric Switches	366
Permanent Magnet Motor	105
Permanent Split Capacitor	
Motors	28, 36-38, 49-63, 68
Pillow Blocks	118-121
Pilotstat	521
Pins, Drive	179, 181

Pipe Fittings	471
Pipe Nipples	480
Pipe, Plastic	471
Pipe Sealant	473
Pipe Threader	177
Pipe Wrap	473
Pipe Wrenches	183
Piston Pumps	494
Plastic, Clear Spray	161
Platform Truck	328
Pliers	166
Plugs, Cord	148, 149
Pneumatic Cylinders	452
Pneumatic Tools	459-463
Polishers, Car	199, 209
Floor, Industrial	259
Post Hole Diggers	390
Post Kit, Steel	276
Post Lantern	367
Pouch, Tool	174
Power Plants	228, 401-405
Power Tool Motors	5, 7, 10, 11
Pressure Blowers	622-625, 629
Pressure Gauges	448, 496
Pressure Sprayers	458
Pressure Switches	505
Pressure Valve, Air	433, 435, 436, 438, 446
Water	470, 494, 510
Pruning Saw	397
Pulley Pullers	179
Pulleys & Sheaves	122-125

PUMPS

Aquarium	478
Barrel	501
Beverage	504
Bilge	490-492
Booster, Pressure	496
Camper	492
Car Wash	494
Cellar Drainers	474-476
Centrifugal	480-489, 503
Chemical Solution	469, 489, 490
Condensate Removal	473
Coolant	490, 491, 502-504
Deep Well Jet	466, 467
Deep Well Submersible	464, 465
Drain	490, 491
Drill Driven	503
Engine Driven	481-485
Evaporative Cooler	490, 491
Fertilizer Spray	495
Flexible Impeller	493
Gasoline Dispensing	501
Gear, Rotary	498-500
Hand	501
High-Head	481, 483, 488
High Pressure Spray	494
Hot Water Circulator	478, 479
Insecticide	495
Jet	466, 467
Laundry Tray	486
Magnetic Drive	490
Medium-Head	480, 483
Nylon Roller	495
Perchloroethylene	489
Piston	494
Recirculating	490, 491, 502-504
Rotary Gear	498-500
Rotary Screw	496, 497
Shallow Well	467
Submersible	504
Centrifugal	502
Deep Well	464, 465
Jump	474-476
Swim Pool	477
Rash	485

Pump Parts & Accessories

Air Volume Control	470
Bases, Mounting	486, 487
Belts	126, 127
Check Valves	470
Floater Switches	491, 505, 506
Floater Valves	470
Floater, Copper	470
Foot Valves	470
Gauges, Pressure	496
Handgun, Hi-Pressure	498
Hoses	398, 471, 478, 484, 498
Hose Clamps	471
Impellers	492, 493
Motors	
Carbonator Pump	29, 44
Centrifugal Pump	26, 27
Hot Water Circ. Pump	
Jet Pump	24, 25
Recirculating Pump	26-29
Sump Pump	23, 30, 31
Mounting Bases	486, 487
Plastic Pipe	471
Plastic Tubing	471
Pressure Switches	505, 506
Pressure Valves	494
PTO Coupling	495
Rollers	495
Seals	494, 497
Stators	497
Strainers	477, 484, 495
Sump Pit Cover	506
Switches	491, 505, 506
Water Filters	512
Water Tanks	468
Waterproof Cable	464

Q

Quartz Bulbs	359
Quartz Fixtures	365

R

Racks, Storage	275, 276
Radio Batteries	362
Radio/TV Tower Kit	314
Radios, C-B	309-312
Radios, Walkie-Talkie	312
Rails, Motor	32
Rainproof Switch	146
Range Controls	296
Elements	296
Hoods & Acc.	603, 610
Ratchet Pullers	324
Receptacle, GFI Outlet	150
Receptacles, Cord	149
Receptacles, Wall	149
Recirculating Pumps	490, 491, 502-504
Recorders, Cassette	287
Reducers, Gear	101
Reducers, Speed	94-103
Reel Lights	153
Reels, Air Hose	448
Reels, Electric Cord	399
Reels, Water Hose	399
Refrigerant	574
Refrigeration Compressors	562-564
Refrigeration Dryers	571
Refrigeration Filter/Dryers	569, 570
Refrigeration Motors	55
Refrigerators	298
Regulators, Air	450, 451
Relays	115, 141, 142, 537, 572, 573

Relief Valves, Air	433-438, 446
Water	494, 510
Respiratory Masks	248, 249
Reversing Switches	656
Revolving Parts Tray	270
Rheostats	71
Rings, Motor Mounting	48, 58, 117
Riveters & Rivets	180
Roller Chains	128
Roof Curb	668, 678
Roof Jack	610
Roof Vents	668, 674-683
Rotary Cutters	224
Rotary Mowers	384-387
Rotary Gear Pumps	498-500
Rotary Screw Pumps	496, 497
Router	196, 213
Rules, Measuring	175
Rust Inhibitor Spray	161

S

Safety Items	246-253
Safety Sleeves	357
Safety Tool Retainer	459
Sales Policy	684
Sand Blasting Kit	458
Sanders, Belt	200, 208, 213, 236, 237
Disc	198, 209, 236
Sheet	200, 213, 462
Sandpaper	220
Sawhorse Legs	280
Saws	
Band	208, 233, 240, 241
Builders	194, 212
Carpenter	178
Chain	392-395
Cut-Off	243
Hack saw	242, 425
Hand	178
Hole Cutting	216, 217
Jigsaw	195, 211
Keyhole	178
Miter	233
Pruning	397
Radial Arm	235
Reciprocal	195, 208, 211
Table	232, 234
Wellsaw	391
Saw Blades	See "Blades"
Scissors Jack	333
Screw Extractors	183
Screwdrivers	
Drill Attachment	216, 224
Hand	168, 182
Power	192, 205
Screws, Set	186
Sheet Metal	224
Scrubber-Polisher	259
Sealant, Pipe	473
Sealants & Adhesives	131
Sealer, Floor	262
Seeder/Spreaders	381, 396
Sewing Machine Motors & Parts	22, 34, 71, 73
Shaded Pole Blowers	614, 617
Shaded Pole Motors	49-70
Shaft Adapter	54
Shaft Arbors	124
Shaft Collars	121
Shafts, Flexible	117
Shallow Well Pumps	467
Shampoo, Carpet	259
Sharpener, Chain Saw	393
Drill Bit Jig	215
Shears, Metal Cutting	169, 199
Sheaves	122-125
Shelving, Steel	265-269, 275, 276, 281
Shipping Cartons	263

INDEX

MotorBook 347

Shipping Room Supplies	263
Shop Vacuum Cleaners	254-258, 262
Shredder, Compost	389
Shutters, Fan	654, 655
Silicone Lubricant Spray	161
Single-Inlet Blowers	622, 627
Skeleton-Type Motors	55, 62
Smoke Detector	521
Smoke Exhauster	229
Snips, Metal Cutting	169
Snow Blade	381
Soap Powder	494
Socket Wrench Sets	162-165
Sockets, Plug	149
Sockets, Wall	149
Softener, Water	514
Soldering Equip't	202, 203
Solenoid Valves	454
Solenoids	138-140
Solvent, Degreasing	161
Humidifier Scale	544
Steam Cleaner	260
Speakers	304
Speed Controls	96, 104, 105
Speed Reducers	94-103
Split Phase Motors	9, 10, 19-25, 31-46
Sponge Rubber Strip	670
Spot Lights	359
Spot Welders	225
Spray Booth Fan	665
Spray Paints	160
Sprayer-Washer	261
Sprayers, Liquid	397
Sprayers, Paint	456, 457
Sprayers, Pressure	458
Spreaders, Lawn	381, 396
Sprinklers	398
Stands	
Display, Paint	160
Drill Press	216
Grinder	238
Machine	270
Saw	235, 241
Spot Welder	225
Tool	236
Work	235, 270
Starters, Fluorescent	354
Starters, Motor	110-116
Steam Cleaner & Solvent	260
Steel Buildings	376
Steel Counter	281
Steel Post Kit	276
Steel Shelving	265-269, 275, 276, 281
Step Ladders	325
Stoker Duty Motor	14
Stools, Shop	293
Storage Cabinets	See "Cabinets"
Storage Lockers	283-285
Strapping, Nylon	263
Stripper, Wire	129
Stud Driver	181
Sump Pumps	474-476
Motors	23, 30, 31
Pit Cover	506
Switches	491, 505, 506
Sun Lamp	358
Suspension Fans	632, 640, 643, 644, 651
Sweat Bands	249
Swim Pool Pump	477
Switch Mounting Box	129
Switch Plates	147, 148
Switches & Controls	
Air	537
Dehumidifier	548

INDEX

MotorBook 347

Switches & Controls, Cont.

Dimmer	129
Fan	See "Fan Parts"
Feed-Thru	148
Floater	491, 505, 506
Foot	237
Leveller	129
Limit	527-531
Motor	113-116, 136, 137, 146, 148
Photoelectric	366
Pressure	505, 506
Push-Push	147
Rainproof	146
Reversing	656
Rotary	147
Rotating	136, 137
Safety	113
Snap Action	146
Sum Pump	491, 505, 506
Three Speed	656
Time	
Appliance	516-520
Fan	See "Fan Parts"
Heavy Duty	516-519
Interval	516-519
Percentage	518
Sprinkler	398, 517
Toggle	147
Touch-Button	148
Two Speed	656

T

Tables, Folding	293
Tachometer	139, 159
Tags, Wire	263
Tanks, Air Compressor	444, 445
Tanks, ASME Air	444, 445
Butane	203
Carpet Shampoo	259
Paint	457
Propane	203
Water	468
Tap & Die Sets	177
Tape, Duct	575
Electrical	151
Gummed Paper	263
Labeling	271
Masking	185
Measuring	175
Thread Sealant	473
Tape Recorder	287
Telephone Answering System	287
Television Antennas	315
Rotors	314
Tower	314
Terminals	151, 152
Test Cord	151
Testers, Continuity	129, 156-158
Voltage	156-158
Thermocouples	532, 537
Thermometer Testing	156
Thermostat Cable	153
Thermostat, Guard	537
Thermostats	
Fan	526
Htg/Cool'g	522-536
Water Heater	510, 527, 531

Thread Restorer	177
Threader, Pipe	177
Three Phase Motors	29, 73-84
Three Speed Motors	37, 49-63
Tiller, Garden	388
Time Indicators	145
Timers	398, 516-520
Timing Light	159
Toggle Switches	147
Tool Balancer	462
Tool Boxes	172, 173
Tool Cabinets	171, 281
Tool Carts	273, 277, 278
Tool Chests	171
Tool Holders	174
Tool Stand	236
Tool Toter	278

TOOLS

Hand

Bearing	117
Bushing	117
Chisels	183
Drive Pin Tool	179
Hacksaw	178
Hammers	176
Hex Wrenches	186
Keyhole Saw	178
Levels	176
Mallets, Rawhide	176
Mechanic Set	187
Nut Drivers	168, 179
Pipe Threader	177
Pliers	166
Pulley Pullers	179
Ratchet Pullers	324
Riveters	180
Saws	178, 397
Screw Extractors	183
Screwdrivers	168, 182
Snips	169
Socket Wrenches	162-165
Tap & Die Set	177
Torque Wrenches	165, 183
Wire Strippers	129
Wrenches	165, 167, 175, 183, 186

Power

Accessories	See Item Wanted
Air Driven	459-463
Drain Cleaner	205
Drill Presses	243-245
Drills	188-191, 205
	206, 210, 211, 461, 462
Engraving	202, 204
Grinders, Bench	238, 239
Die	461
Portable	197-199, 204, 209
Hammer Drills	191, 207
Hammers	191, 207
Hobby Tool Kits	204
Impact Wrenches	193, 460-463
Laminate Trimmer	196
Performance Standards	202
Polisher, Car	199, 209
Router	196, 213
Safety Standards	202
Sanders, Belt	200, 208, 213, 236, 237
Disc	198, 209, 236
Sheet	200, 213, 462
Saws	
Band	208, 233, 240, 241
Buildors	194, 212
Chain	392-395
Cut-Off	243
Hacksaw	242
Hole Cutting	216, 217

TOOLS, Power Cont.

Saws	
Jigsaw	195, 211
Miter	233
Pruning	397
Radial Arm	235
Reciprocal	195, 208, 211
Table	232-234
Wellsaw	391
Screwdriver	192, 205
Shear	199
Stud Driver	181

Torch, Acetylene	231
Butane, Propane	203
Torque Wrench	165, 183
Tote Boxes	271
Tractors, Lawn	377-379
Transformer, Oil Burner	535
Transformers	527
Trash Bags	343
Trash Barrel	443
Trash Pumps	485
Tree Pruning Saw	397
Trimmers, Garden	397
Trolleys, Hoist	318
Trouble Lamps	153
Trucks, Hand	325, 327
Mobile Chair	293
Pallet, Hand	324
Platform	328
Tool Boxes	173
Tubes, Fluorescent	357
Tubing, Plastic	471
Tungsten Halogen Bulbs	359
Tungsten Halogen Fixture	369
Tune-Up Kit, Automotive	159
Two Shaft Motors	5, 10-14
	41, 51-59, 63, 66, 67
Two Speed Motors	22, 33-38
	51, 52, 55, 57, 63-68

U

Unit Bearing Motors	54, 55, 62
Unit Heaters	589-597
Universal Motors	47
Universal Mount Blowers	618-621, 627, 628
Unloader Controls	435, 436

V

V-Belts	126, 127, 441
Vacuum Cleaner Dollies	254
Vacuum Cleaners	
Hand	258, 259
Household	258, 297
Outdoor	389
Shop	254-258, 262
Wet	256
Vacuum Pumps	407, 413
Valves	
Air	454
Air Tank	446, 449
Ball	446
Check, Air	433-438, 446
Water	470
Drain	448
Expansion	565, 567
Floater	470
Foot	470
Gas	521, 533
Hydronic Zone	531, 532
Pressure Relief, Air	433-438, 446
Water	494, 510
Saddle	471
Safety	433, 436-438, 446
Solenoid	103, 140, 454

Variable Pitch Pulleys	125
Varnish, Insulating Spray	161
Vents, Roof	668, 675-683
Vibrator Motor	69
Vinyl Tubing	471
Vises, Bench	184, 185
Voltage Testers	156-158

W

Wall Fans	604-609, 658-661
Wall Plates	148, 149
Warranty Policy	684
Washers, Fiber	136
Washing Compounds	261, 494
Washing Equipment	261
Waste Disposers	513
Water Chlorinator	469
Circulators	478, 479
Coolers	299-303
Filters	512
Heaters	508-511
Hose	398, 478, 484
Hose Reels	399
Nozzle	472
Softener	514
Sprinklers	398
System Manual	470
Tanks	468
Timer	398
Weather Stripping	670
Welders Protection	248
Welding Equipment	225-231
Wheelbarrows	396
Wheels, Buffing	221
Caster	334-340
Grinding	198, 221
Masonry Cutting	223
Metal Cutting	223
Semi-Pneumatic	342
Winches	319-323
Window Fans	646, 648
Wire Brushes	219
Connectors	151, 152
Crimping Tool	151
Electrical	151-155
Stripper	129
Wiring Devices	129, 148-151
Work Benches	273, 279, 280
Work Gloves	253
Work Lamps	361
Wrapping Paper	263
Wrenches, Adjustable	175
Flat	165, 167, 175, 183
Hex Head Nut	186
Impact	193, 460-463
Locking-Plier	166
Pipe	183
Socket	162-165
Torque	165, 183

Y

Yard & Garden Tools	
& Equipment	376-399
Yoke Mounted Motors	36, 44

Z

Zinc Primer Spray	161
Zone Valves	531, 532

**FREE FREIGHT
ON 300 LBS.
AND OVER**

Unless otherwise
stated, See Policy
on p. 684 for
full details.

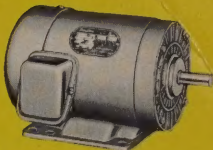
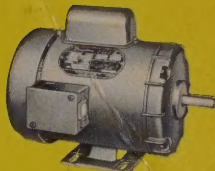
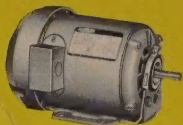
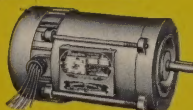
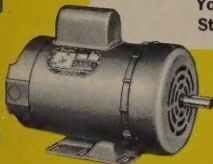
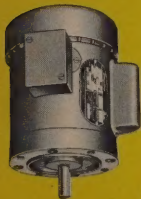
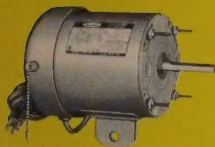
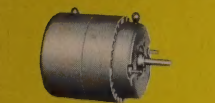
TOTALLY ENCLOSED MOTORS to 50 HP

MOTOR SECTION Pages 2 to 109

Shaded Pole
Split Phase
Capacitor
3-Phase
DC

Totally Enclosed,
Non-Ventilated
Totally Enclosed,
Fan-Cooled
Dust-Tight
Explosion-Proof

Rigid Mount
Resilient Mount
NEMA C Face Mount
Yoke Mount
Stud Mount



LIQUID PUMPS FOR INDUSTRY-FARM-HOME

PUMP SECTION Pages 464 to 506

CENTRIFUGAL

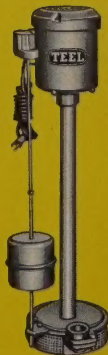
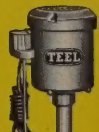
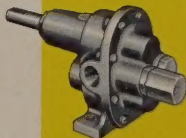
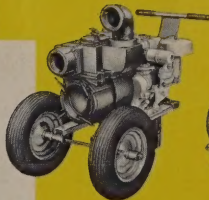
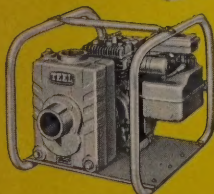
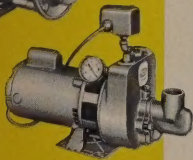
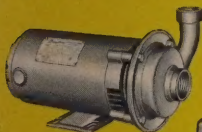
Submersible Deep Well
Sump Pumps
Self-Priming
Drainage
Trash
Chemical
Recirculating
Swimming Pool
Camper-Marine
Condensate

JET PUMPS

Shallow & Deep Well
Pumps & Systems

POSITIVE DISPLACEMENT

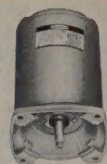
Rotary Gear
Rotary Screw
Flexible Impeller
Fuel Dispensing
Roller Pumps



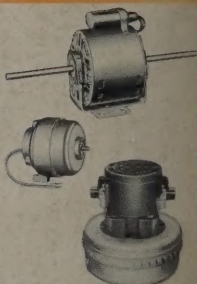
GRAINGER'S

REPLACEMENT ELECTRIC MOTORS FROM STOCK

See Pages
2 to 72



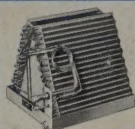
For Fans, Blowers,
Pumps, Oil Burners,
Air Conditioners,
Shop Vacuums,
Appliances,
Many Other Products



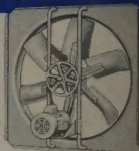
MORE THAN 6,500 HIGH-DEMAND PROFIT MAKERS IN STOCK

AIR CONDITIONING, VENTILATING AND REFRIGERATION PRODUCTS

See Pages
550 to 575, 640 to 683



Window Units and Central
Systems for Residences,
Commercial Buildings



Refrigeration Components



Industrial
Commercial
Residential
Circulators
and Exhausters

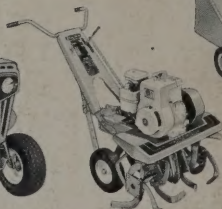
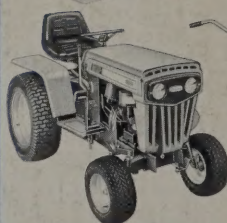
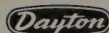


PHONE YOUR ORDERS, FAST WILL-CALL OR SHIPPING SERVICE

LAWN AND GARDEN EQUIPMENT

Mowers
Tractors
Tillers
Trimmers
Chain Saws

See Pages
377 to 400



COMPLETE INDEX AT BACK OF BOOK

137 LOCATIONS

LIST ON PAGES 684-685

